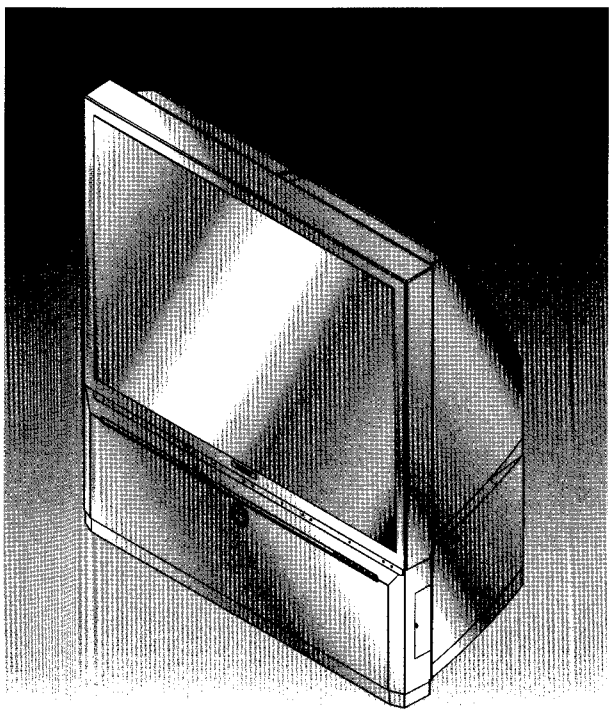
SAMSUNG

PROJECTION TV RECEIVER

Chassis : J54A(P) C2.0

SERVICE Manual

PROJECTION TV RECEIVER



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1. Alignment and Adjustments

1-1 When entering the service mode;

1. Turn on the TV, and then select "DYNAMIC" on the picture adjustment mode.
2. Turn off the TV(STAND-BY).
3. Enter the service mode by pressing the remote control keys in the following sequence:
   Display -> Menu -> Mute -> Power ON

Note : If necessary, re-do steps 1~3.

Initial display when the service mode is switched.

1-1-1 WHEN A RF SIGNAL IS RECEIVED

MODEL((T_CM2P06_002)

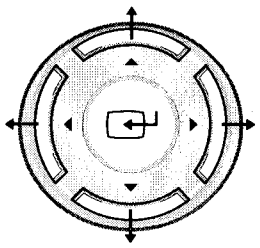
DEFLECTION
VIDEO ADJUST 1
VIDEO ADJUST 2
VIDEO ADJUST 3
VIDEO ADJUST 4
OPTION (87h 05ch)
YC DELAY
RESET
T_CM2906_002 yy.mm.dd

MODEL(T_CMDEAC_XXX)

DEFLECTION
VIDEO ADJUST 1
VIDEO ADJUST 2
VIDEO ADJUST 3
VIDEO ADJUST 4
OPTION (EF 8E 2E)
YC DELAY
RESET
T_CMDEAC_XXX yy.mm.dd

1-1-2 SERVICE MODE CONTROL KEYS

MAIN MENU	MENU DISPLAY
UP / DOWN	Select item by moving cursor
RIGHT / LEFT	Decrease or increase the adjustment values



[Navigation Key]

✍ **PRECAUTIONS**

1. When EEPROM IC (IC902) is replaced, first connect the power cord and wait for about 4~5 seconds.
2. After replacing EEPROM IC (IC902), enter the Service mode. Next, enter the standard data or the previous EEPROM IC data before replacement. And then check and adjust any items related to Geometric, Picture, Option.

1-2 FACTORY MODE MENU

1-2-1 MODEL(T_CM2906_002)

1-2-1(A) DEFLECTION

Item	Range	Initial Data		Remark
		4:3	Wide	
V Amp	0 ~ 63	39	31	Variable
V Shift	0 ~ 63	31	31	FIX
H EW	0 ~ 63	44	31	Variable
H Shift	0 ~ 63	31	31	FIX
V Linearity	0 ~ 15	7		FIX
Upper Linearity	0 ~ 15	0		FIX
Lower Linearity	0 ~ 15	0		FIX
V SC	0 ~ 15	7		FIX
H Parabolra	0 ~ 63	25	31	FIX
Upper Corner	0 ~ 63	37	31	FIX
Lower Corner	0 ~ 63	33	31	FIX
H Trapezium	0 ~ 63	31		FIX
Bow	0 ~ 63	31		FIX
Angle	0 ~ 63	31		FIX
V Position	0 ~ 63	31		FIX
Up UCG	0 ~ 3	0		FIX
Lo UCG	0 ~ 3	0		FIX
CXA Left Blk	0 ~ 63	50		FIX
CXA Right Blk	0 ~ 63	25		FIX

1-2-1(B) VIDEO ADJUST1

Item	Range	Initial Data	Remark
R Cutoff	0 ~ 63	25	Variable
G Cutoff	0 ~ 63	25	FIX
B Cutoff	0 ~ 63	25	Variable
Color On/Off	0 ~ 1	1	Variable
CB Offset	0 ~ 63	31	Variable
CR Offset	0 ~ 63	31	Variable
R Drive	0 ~ 63	25	Variable
G Drive	0 ~ 63	25	FIX
B Drive	0 ~ 63	25	Variable
Sub Bright	0 ~ 63	15	Variable
Sub Contrast	0 ~ 15	8	Variable
Sub Color	0 ~ 23	3	FIX
Sut Tint	0 ~ 63	31	FIX
CTI Level	0 ~ 3	1	FIX
COL Axis	0 ~ 3	1	FIX
LTI Level	0 ~ 3	1	FIX
VSU	0 ~ 15	2	FIX
Melody Volume	0 ~ 20	7	FIX
LIT Mode	0 ~ 3	1	FIX
System	0 ~ 3	1	FIX

1-2-1(C) VIDEO ADJUST2

Item	Range	Initial Data	Remark
ABL Level	0 ~ 3	3	FIX
Gamma	0 ~ 3	1	FIX
DPIC Level	0 ~ 3	2	-
DC Trans	0 ~ 3	3	FIX
ABL TH	0 ~ 15	15	FIX
VM Level	0 ~ 3	1	-
VM Corint	0 ~ 15	0	FIX
VM f0	0 ~ 3	1	FIX
VM Limit	0 ~ 3	1	FIX
VM Delay	0 ~ 3	1	FIX
SHP CD	0 ~ 3	0	FIX
SHP f0	0 / 1	1	FIX
SHP f1 & P/O	-	11	FIX
AKB Time	0 ~ 63	13	FIX
BandPass 9407	-	24	-
HighPass 9407	-	40	-
S ABL	0 ~ 3	0	FIX
P ABL	0 ~ 15	15	FIX

1-2-1(D) VIDEO ADJUST3

Item	Range	Initial Data		Remark
		4:3	Wide	
H Comp	0 ~ 15	8	13	FIX
V Comp	0 ~ 15	5	12	
Pin Comp	0 ~ 7	0		
AFC Comp	0 ~ 7	0		
H-Sync Phase	0 / 1	0		
NR Off Value	0 ~ 9	6		
CG HA0	0 ~ 20	10		
CG VA0	0 ~ 20	15		
NR High Ref	0 ~127	40		
NR Low Ref	0 ~127	3		
NR High Value	0 ~255	17		
NR Low Value	0 ~255	51		
NR Hight Ref(S)	0 ~127	20		
NR Low Ref(s)	0 ~127	0		
NR High Value(S)	0 ~255	17		
NR Low Value(S)	0 ~255	51		
NR Read M/S	0/27	0 0		

1-2-1(E) VIDEO ADJUST4

Item	Range	Initial Data	Remark
SECAM Color Main	0 ~255	28	FIX
SECAM Color Pip	0 ~255	28	
Picture Limit	0 ~ 3	3	
OSD Contrast	0 ~ 15	10	
TTX Contrast	0 ~ 15	3	

1-2-1(F) OPTION

Item	Setting Data	Appliance		Remark
		CW	CS	
SYSTEM	CS/CW	CW	CS	Area Option
SOUND	A2-NICAM/Dolby-Prologic	Dolby Prlogic		-
ASPECT	WIDE / 4:3	-		Inch Option
WIDE 4:3	ON/OFF	-		Inch Option
X-RAY	ON/OFF	ON		-
AUTO FM	ON/OFF	ON		-
PIP	ON/OFF	ON		-
LNA	ON/OFF	ON		-
Letter Box	ON/OFF	ON		-
TTX Lang.Grp	West/East/CIS/Turk&Grk	-		Area Option
AGC	ON/OFF	OFF		-
Natural Zoom	ON/OFF	OFF		-

1-2-1(G) YC DELAY

Item	Range
P.YC(AV) Delay	1
S.YC(AV) Delay	-5
N.YC(AV) Delay	1
P.BG.YC Dealy	1
P.DK.YC Delay	-2
P.I.YC Delay	0
P.M.YC Delay	0
P.N.YC Delay	0
S.BG.YC Delay	-7
S.DK.YC Delay	-9
S.I.YC Delay	-9
S.M.YC Delay	-7
S.L.YC Delay	-10
N.M.YC Delay	3
N4.43 YC Delay	-6

1-2-2 CS MODEL(T_CMDEAC_XXX)

1-2-2(A) DEFLECTION

Item	Range	Initial Data												Remark
		42W5		47W1		43T6/43T7		48T6		54T6		62T6		
		NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	
V Amp	0 ~ 63	48	48	48	48	48	48	48	48	48	48	48	48	Variable
V Shift	0 ~ 63	31	31	31	31	31	31	31	31	31	31	31	31	FIX
H EW	0 ~ 63	48	48	48	48	48	48	48	48	48	48	48	48	Variable
H Shift	0 ~ 63	24	24	24	24	24	24	24	24	24	24	24	24	FIX
V Linearity	0 ~ 15	7		7		7		7		7		7		FIX
Upper Linearity	0 ~ 15	0		0		0		0		0		0		FIX
Lower Linearity	0 ~ 15	0		0		0		0		0		0		FIX
V SC	0 ~ 15	2		2		2		2		2		2		FIX
H Parabolra	0 ~ 63	15		15		15		15		15		15		FIX
Upper Corner	0 ~ 63	33		33		33		33		33		33		FIX
Lower Corner	0 ~ 63	33		33		33		33		33		33		FIX
H Trapezium	0 ~ 63	18		18		18		18		18		18		FIX
Bow	0 ~ 63	31		31		31		31		31		31		FIX
Angle	0 ~ 63	31		31		31		31		31		31		FIX
V Position	0 ~ 63	31		31		31		31		31		31		FIX
Up UCG	0 ~ 3	0		0		0		0		0		0		FIX
Lo UCG	0 ~ 3	0		0		0		0		0		0		FIX
CXA Left Blk	0 ~ 63	50		50		50		50		50		50		FIX
CXA Right Blk	0 ~ 63	25		25		25		25		25		25		FIX

1-2-2(B) VIDEO ADJUST1

Item	Range	Initial Data	Remark
R Cutoff	0 ~ 63	20	Variable
G Cutoff	0 ~ 63	20	Variable
B Cutoff	0 ~ 63	20	Variable
Color On/Off	0 ~ 1	1	FIX
CB Offset	0 ~ 63	31	Variable
CR Offset	0 ~ 63	31	Variable
R Drive	0 ~ 63	31	Variable
G Drive	0 ~ 63	31	Variable
B Drive	0 ~ 63	31	Variable
Sub Bright	0 ~ 63	20	Variable
Sub Contrast	0 ~ 15	8	Variable
Sub Color	0 ~ 23	15	FIX
Sut Tint	0 ~ 63	31	FIX
CTI Level	0 ~ 3	1	FIX
COL Axis	0 ~ 3	2	FIX
LTI Level	0 ~ 3	1	FIX
VSU	0 ~ 15	2	FIX
Melody Volume	0 ~ 20	4	FIX
LIT Mode	0 ~ 3	1	FIX
System	0 ~ 3	1	FIX

1-2-2(C) VIDEO ADJUST2

Item	Range	Initial Data	Remark
ABL Level	0 ~ 3	3	FIX
Gamma	0 ~ 3	1	FIX
DPIC Level	0 ~ 3	3	FIX
DC Trans	0 ~ 3	2	FIX
ABL TH	0 ~ 15	15	FIX
VM Level	0 ~ 3	2	FIX
VM Coring	0 ~ 15	0	FIX
VM f0	0 ~ 3	1	FIX
VM Limit	0 ~ 3	1	FIX
VM Delay	0 ~ 3	1	FIX
SHP CD	0 ~ 3	0	FIX
SHP f0	0 / 1	1	FIX
SHP f1 & P/O	-	11	FIX
AKB Time	0 ~ 63	13	FIX
BandPass 9407	-	24	FIX
HighPass 9407	-	40	FIX
S ABL	0 ~ 3	0	FIX
P ABL	0 ~ 15	15	FIX

1-2-2(D) VIDEO ADJUST3

Item	Range	Initial Data	Remark
H Comp	0 ~ 15	2	FIX
V Comp	0 ~ 15	4	
Pin Comp	0 ~ 7	3	
AFC Comp	0 ~ 7	0	
H-Sync Phase	0 / 1	0	
NR Off Value	-	6	
CG HAO	0 ~ 20	10	
CG VAO	0 ~ 20	15	
NR High Ref	0 ~127	40	
NR Low Ref	0 ~127	3	
NR High Value	-	17	
NR Low Value	-	51	
NR Hight Ref(S)	0 ~127	20	
NR Low Ref(s)	0 ~127	0	
NR High Value(S)	-	17	
NR Low Value(S)	-	51	
NR Read M/S	-	0 0	

1-2-2(E) VIDEO ADJUST4

Item	Range	Initial Data	Remark
SECAM Color Main	0 ~255	28	FIX
SECAM Color Pip	0 ~255	28	
Picture Limit	0 ~ 3	3	
OSD Contrast	0 ~ 15	10	
TTX Contrast	0 ~ 15	3	

1-2-2(F) OPTION

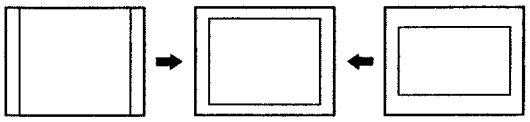
Item	Setting Data	Appliance (Southeast Asia)	Appliance (CHINA)	Appliance (Middle East)
LANGUAGE	ENG+THAI / ENG+CHINA ENG+MIDDLE / ONLY ENG	ONLY ENG ENG+THAI(Thailand)	ENG+CHINA	ENG+MIDDLE
SOUNG	A2-NICAM/Virtual Dolby /Dolby Prologic	Dolby Prologic	Dolby Prologic	Dolby Prologic
CRT	WIDE / 4:3	4:3(Option)	4:3(Option)	4:3(Option)
CHANNEL	100-channel / 200-channel /250-chanel	100-channel	200-channle	250-channle
X-LAY	OFF / ON	ON	ON	ON
TTX	OFF / ON	ON	OFF	ON
AUTO FM	OFF / ON	ON	ON	ON
PIP	OFF / 2-TUNER	2-TUNER	2-TUNER	2-TUNER
MULTI PIP	OFF / ON	ON	ON	ON
LNA	OFF / ON	ON	ON	ON
HIGH DEV	OFF / ON	OFF	OFF	OFF
SCART	RCA+1SCART+DVD / RCA+DVD	RCA+1SCART+DVD	RCA+DVD	RCA+1SCART+DVD
LETTER BOX	OFF / ON	ON	ON	ON
DW PIP	OFF / ON	ON	ON	ON
LIST PRIOR	OFF / ON	OFF ON(AUSTRALIA)	OFF	OFF
TTX LANG	WEST EUROPE / EAST EUROPE RUSSIAN / GREEK-TURKEY ARABIC / FARSI / AREB-HEBREW	WEST EUROPE	WEST EUROPE	ARABIC
AGC	OFF / ON	OFF/ON(Thailand)	OFF	OFF
AV MEMORY	OFF / ON	OFF	OFF	OFF
AUSTRALIA	OFF / ON	OFF	OFF	OFF
CG BRIGHT	OFF/ON	OFF	OFF	OFF

1-2-2(G) YC DELAY

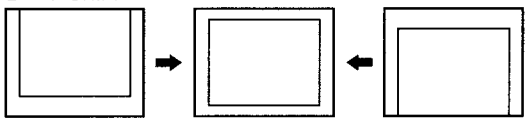
Item	Range
P.YC(AV) Delay	1
S.YC(AV) Delay	-5
N.YC(AV) Delay	1
P.BG.YC Dealy	1
P.DK.YC Delay	-2
P.I.YC Delay	-2
P.M.YC Delay	0
P.N.YC Delay	0
S.BG.YC Delay	-7
S.DK.YC Delay	-10
S.I.YC Delay	-9
S.M.YC Delay	-7
S.L.YC Delay	-10
N.M.YC Delay	3
N.443.YC Delay	-1

1-3 Screen Change (When Adjusting I²C Bus Geometric Items)

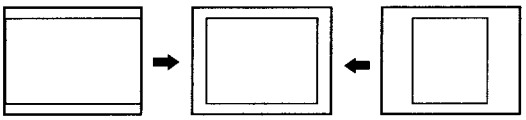
1 V AMP



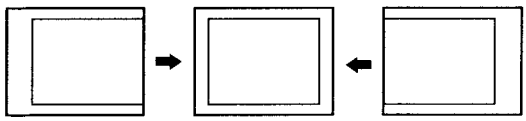
2 V SHIFT



3 H EW

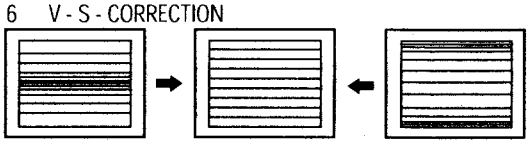


4 H SHIFT

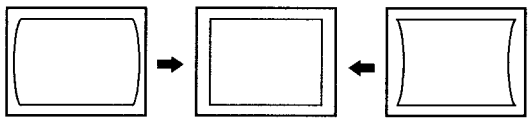


5 V LINEARITY

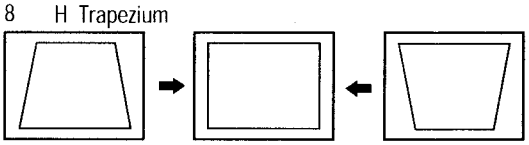
6 V - S - CORRECTION



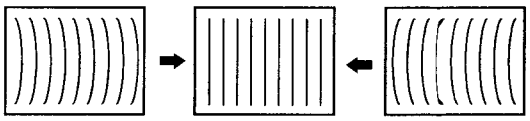
7 H Parabolra



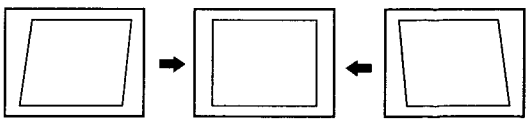
8 H Trapezium



9 BOW



10 ANGLE



1-4 Other Adjustments

1-4-1 Screen Adjustment

1. Warm up the TV for at least 30 minutes.
2. Select the "DYNAMIC" Video mode.
3. Trun to the Video Mode(No Signal) using a remote-control.
4. Connect an oscilloscope to RK, GK, BK.
5. Adjust the VR (VR501, VR531, VR561) screen so that RK, GK, BK pulse is 20Vp-p each. (Turn the R,G,B VR screen fully counterclockwise in the area of each flyback line.)

1-4-2 White Balance Adjustment

1. Select the "DYNAMIC" video mode.
2. Input 100% white pattern.
3. In the stand-by mode, press the remote-control keys in the following sequence:
   Displsy → Menu → Mute → Power ON
4. Warm up the TV for at least 30 minutes.
5. Input a 10-step signal.
6. R-cut off, B-cut off, and G-cut off by pressing the Volume +/- keys.
7. Adjust the low light with viewing the dark side of the screen.
8. Select R-drive, G-drive and B-drive by pressing the Volume +/- keys.
9. Adjust the high light with viewing the light side of the screen.
10. If necessary, redo adjustments 6~9.
11. Press the Menu key to exit.

1-4-3 Sub-Brightness Adjustment

1. Input a sub-brightness adjustment signal. (TOSHIBA PATTERN)
2. In the stand-by mode, press the remote-control keys in the following sequence :
   Displsy → Menu → Mute → Power ON
3. Select Sub-Bright by pressing the Volume +/- keys.
4. Adjust so that the 63 step on the right side of the screen is not seen (Use the Volume +/- keys).
5. Press the Menu key to exit.

1-4-4 High Voltage (29KV) Check

PRECAUTION

1. Input a lion head pattern.
2. Select "DYNAMIC" video mode.
3. Warm up the TV for at least 10 minutes.
4. Use a 1000:1 probe.

ADJUSTMENT

1. Connect the (+) terminal of the 10000:1 probe to the high voltage distributor and the(-) terminal to GND(located on the deflection board).
2. Adjust RR471S (located on the deflection board) so that the digital meter indicates DC290V ± 0.1V.

4-4-5 F.S. (Fail Safe) Circuit Check

Note : The finished product has a well-mounted VR(RR402S).
If necessary, do the F.S adjustments in the following sequece.

1. Use a digital multimeter.
2. Connect the digital multimeter to the JIG pin (DZ482S) terminals.
3. Adjust VR(RR402S) so that the voltage becoms 2.25V.
4. After the adjustments are complete be sure to mount VR(RR402S) correctly.

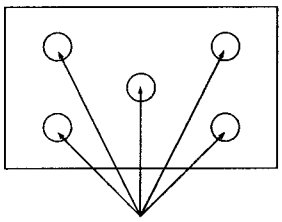
1-4-6 Static Focus Adjustment

PRECAUTION

1. Select the "DYNAMIC" video mode.
2. Input a crosshatch pattern.
3. Cover the lenses that are not being adjusted.
4. Connect a convergence jig and read data.
5. Adjust the lens for best focus.
   (See Fig, 4-1)

STATIC FOCUS (CONTINUED)

Vary the focus pack VR (Red, Blue) on the front cabinet. Adjust the TV for best possible focus around the center of the crosshatch pattern, without losing overall screen balance.
Figure Crosshatch Pattern
Examine these points together.



Examine these points together
Fig. 4-1 Crosshatch Pattern.

1-4-7 Lens Focus Adjustment

PRECAUTIONS

1. Do this adjustment after the static focus adjustment and the tilt adjustment.
2. Select the "DYNAMIC" video mode.
   (Contrast:100, Brightness:50)
3. Input a crosshatch pattern.

ADJUSTMENT

1. Loosen the lens screws.
2. Cover the two lenses that are not being adjusted.
3. Adjust the lens, observing the color aberration vertically and horizontally within 3 blocks of the center of the crosshatch pattern.
4. When the lens is turned clockwise, the color aberration will change as follows:

Lens	Color Aberration Change
R	Orange - Crimson
G	Blue - Red
B	Purple - Green

5. Green lens adjustment:
   Set the lens at the point where Blue just changes to Red. If the color aberration is irregular throughout the picture screen, adjust the lens to show Red color aberration (approximately 1~3 mm area) within a 3-block grid around the horizontal center-line. If the color aberration is irregular, adjust the lens as shown in the diagram below. (Accurate alignment of Green is important for overall color quality.)
6. Red lens adjustment
   Set the Red lens at the point where Orange becomes Crimson.
7. Blue lens adjustment
   Set the Blue lens at the point where Purple becomes Green.

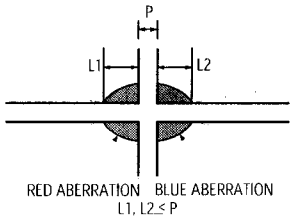


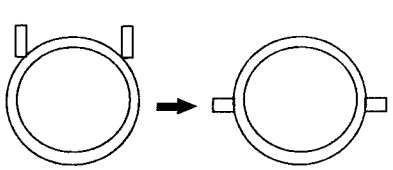
Fig. 4-2 Color Aberration

1-5 Beam alignment Adjustments

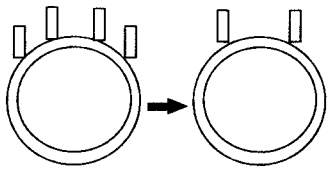
1. Select the "DYNAMIC" video mode.
2. Warm up the set at least for 10 minutes.
3. Enter the Convergence mode by pressing the remote control buttons in the following sequence :

   Mute → (1) → (8) → (3)

4. Set the Beam Alignment Adjustment CY to Zero magnetic field area.

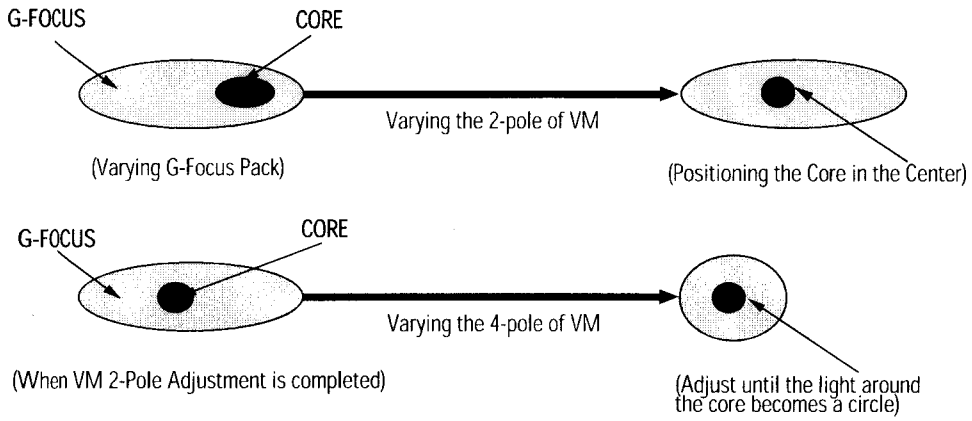


(Creation of CPM Zero Magnet)



(Creation of the 2-pole/4-pole zero magnets)

5. Check the squarewave at the point where the focus is misaligned.
6. Press the (7) button on the remote control during 3~5 sec and vibrating dot-pattern appears.
7. Adjust the Focus-pack VR for defocusing.
8. Mute the other patterns (R/B) other than G-PATTERN.
   (Use ⊟ (-/--) / (▭) TV buttons on the remote control.)



9. Adjust the 2, 4 polarities of VM-COIL as shown in figure below.
10. Adjust the G-Focus until any light around the core disappears.
11. Adjust G-Focus so that the surrounding flash can disappear from the spot.
12. After G-Focus adjustments are complete, adjust R-Focus as above procedures.
13. The B-CRT adjustments can be omitted because the variance of beam focus is small.
    (Only Vm-coil is mounted.)
14. Adjust the Focus-pack VR for fine focusing.
15. Press the (7) button on the remote control, and the mode changes to the Convergence Adjustment mode.
16. Press the S.STD (♪) button on the remote control to return to normal viewing.

1-6 High Voltage Part

1-6-1 PWM REG Circuit

For the existing high voltage REG circuit (input voltage variation type), a dynamic REG response is not provided. So it is difficult for both beam linearity and uniformity in screen size to be maintained on the screen with rapidly changing beams.

A PWM (Pulse Width Modulation) type of high voltage, however, provides the maintenance of beam linearity and uniformity in screen size via a quick response to beam change by performing sync lock every 1H line, and detecting beam fluctuation at 1H line, and then controlling the IC current of high voltage output circuit.

1. High Voltage Fluctuation Detect (DC Detect)

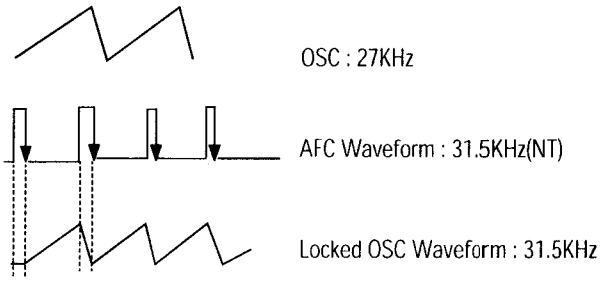
   FBT pin 11 detects DC high voltage fluctuation. The detected DC high voltage value is input to PWM IC471 pin1 through R473, VR471, R471, and then it is input to a differential AMP circuit that differentiates the gap after comparing with the reference voltage input to pin2.

2. High Voltage Fluctuation Detect (AC Detect)

   To check AC high voltage fluctuation, the output from FBT is detected by using a capacitor inside the high voltage distributor. The detection of AC high voltage fluctuation, a detection of dynamic beam current change is required in order to keep beam linearity and uniformity in size.
   Regarding the capacitor, a capacity of less than 3000P should be applied to a PWM type. (The existing type needs a capacity of about 6000P.)
   AC detect circuit eliminates unnecessary high frequency by using C476, D472. Also, AC gain is limited to + / - 0.7V (D472). This AC gain is combined with the detection value of DC high voltage fluctuation by using C478.

3. PWM IC OSC Sync Lock

   A PWM type IC needs sync lock for PWM pulse and horizontal scan line.
   The standard time constant of OSC circuit is determined by C487, R475 (PWM IC pins 5 and 6). And the standard OSC frequency is about 27 kHz . The horizontal frequency of scan line is 31.5kHz(NT), 31.25kHz(PAL), so sync lock for this horizontal frequency should be performed using sync lock circuit. The sync lock circuit consists of Q481(Tr KSC815-Y), D479, D478, and C492. The input AFC signal is connected to PWM IC pin 5 through D479 so that it can be negative Trig.

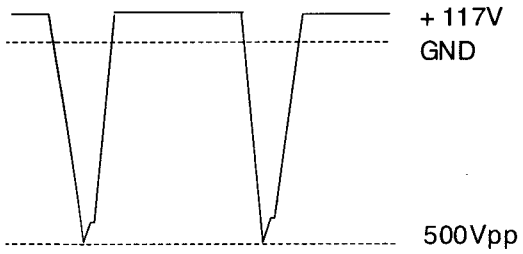


4. Dead Time (HV Protect)

   Dead Time (PWM IN pin4) consists of C481, delays high voltage for a certain time to soft start in power on, a x-ray protection circuit.
   The voltage of Dead Time is detected by FBT pin7 and through DC Feedback. The normal voltage of Dead Time is +27V. When high voltage increases, however, detected voltage is in proportion to high voltage. Then, the detected voltage is applied to ICR01S(TL431).
   If the voltage is over 2.5V (normal:about 2.25V), TL431 turns ON, the base port of QR401S becomes low, and then an emitter current flows. At this time, a high voltage protection point is set. When QR401S turns ON, high voltage is applied to PWM IC pin4 and then muted.

5. Output Circuit

The voltages, which are detected form an error detection circuit of PWM IC (Differential AMP) and Dead Time, each is applied to PWM conparator . Due to these detection coltages, Q1, Q2 (Output TR) parallel operate. Q482 (External TR), however, functions as a buffer; natches inpedance between the output port of PWM IC and the final output TR(IRFS640). The PWM pulse (applied to the final output FET (IRFS640 GATE) varies the IC current of high voltage TR(Q473) by adjusting the load impedance of starage Trans (T431). Due to this variation of current, the gain for Q473 emitter pulse changes T444(FBT)makes this emitter pulse became high voltage. Such change keeps both dynamic and static changes fixed. The output waveform of high valtage TR emitter is as shown in the figure below.



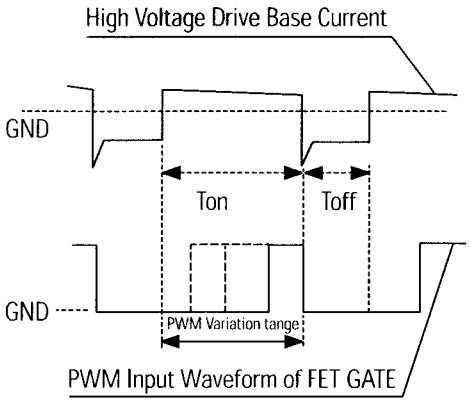
6. Paraneters according to beam

To maintain the set high voltage value (31kV), parmaters such as +Ve (DC), Vcp High Voltage change (See the table below).

Factor of high voltage change	Parameters			
	Width of FET Gate Pulse	+ Ve (DC)	Vcp	High Voltage
Beam ↓ (High voltage ↑)	↓	↑	↓	↓
Beam ↓ (High voltage ↑)	↑	↓	↑	↑

7. Response Waveform

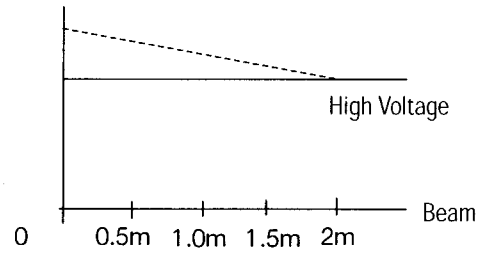
To reduce unstable high voltage fluctuation, the existing high voltage type REG circuit controls dynamic fluctuation by using C-block capacitor. But, it can't detect actual dynamic fluctuation. Also, its velocity of response to static fluctuation is late because +B power supply changes per about 1V. A PWM modulation type REG detects static, dynamic high voltage fluctuation for only Ton Time (when the current of the output TR collector flows) each 1H, and modulates the width of PWM pulse. So, this PWM type has better improvement in the characteristic of high voltage REG as compared to the existing type.



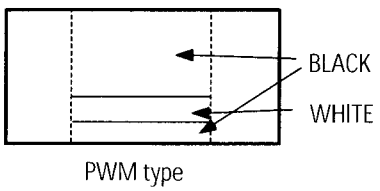
8. Application Effects

1) Improvement of horizontal size fluctuation
2) Linearity improved
3) Embodiment of X-ray protection circuit

The figures below show characteristics when a PWM high voltage REG circuit is applied.



---------- High Voltage OFF
——— High Voltage REG ON



PWM type

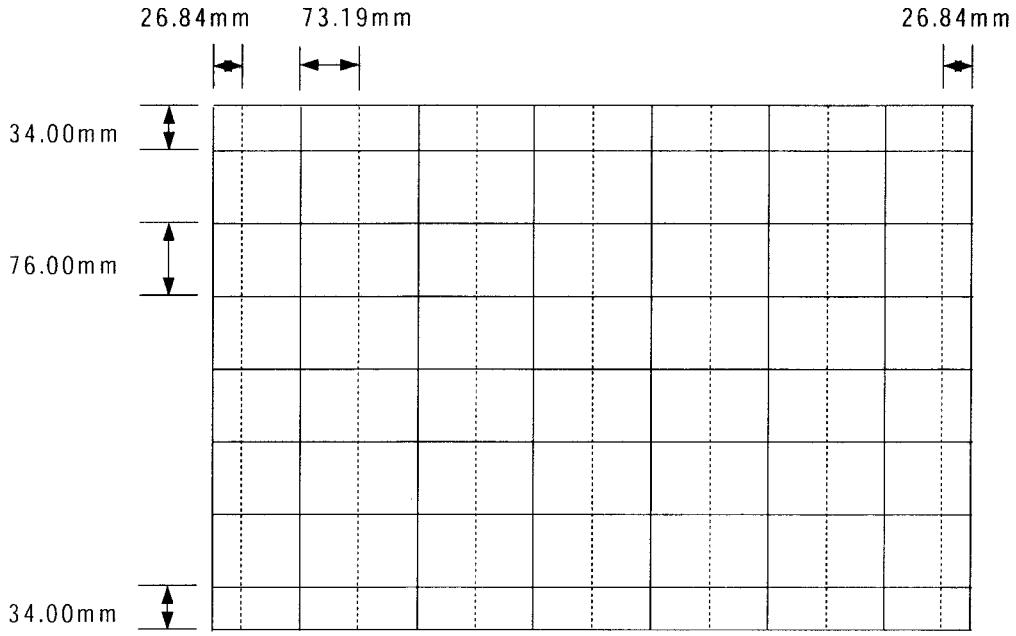
When a Toshiba Pattern is recrived, the screen is displayed as shown in figute side

Existing type

1-6 SCREEN-JIG

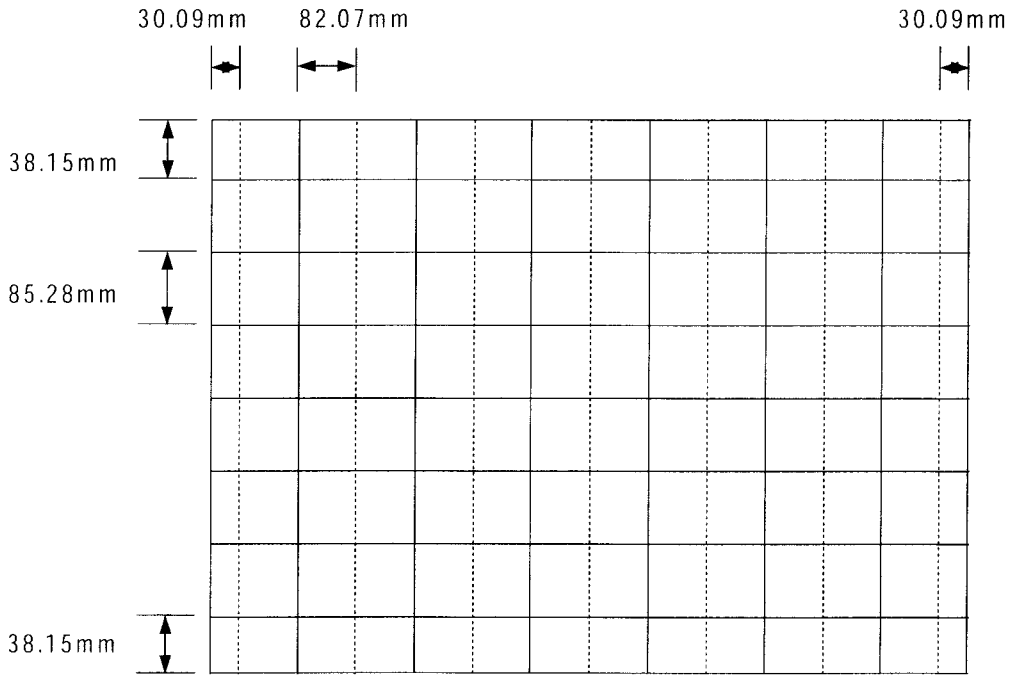
1-6-1 42W5

42W5 Screen Size : X 932, Y 524 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



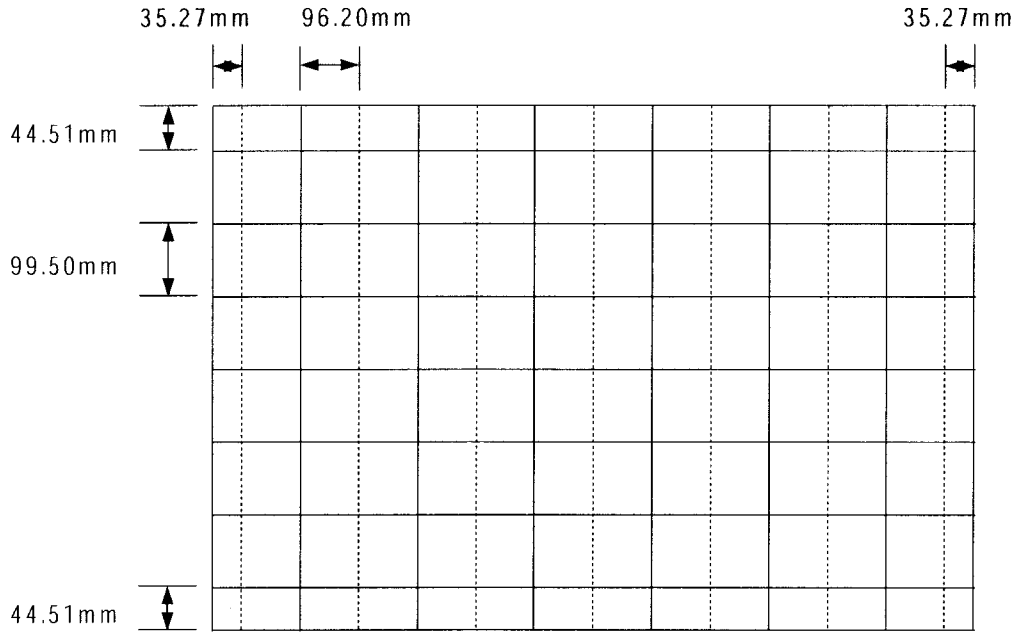
1-6-2 47W3

47W3 Screen Size : X 1045, Y 588 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



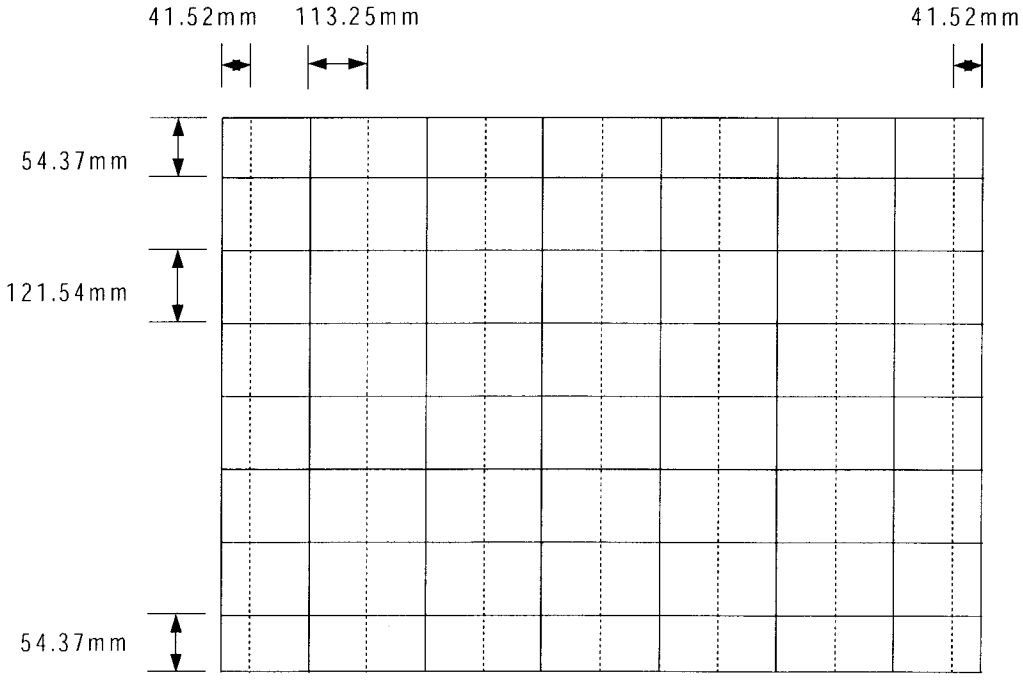
1-6-3 55W3

55W3 Screen Size : X 1225, Y 686 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



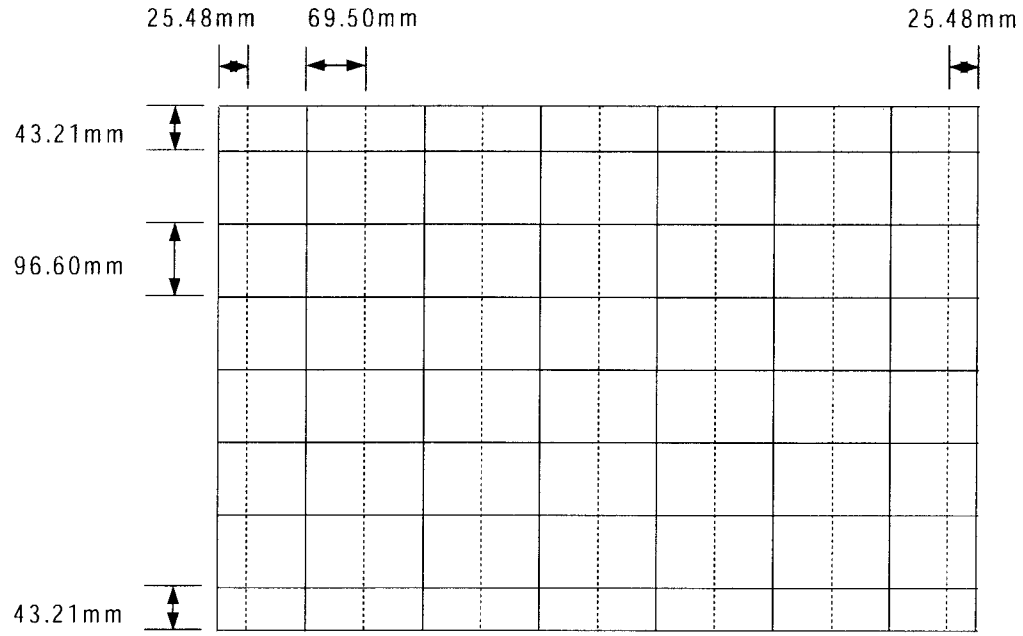
1-6-4 65W3

65W3 Screen Size : X 1442, Y 838 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



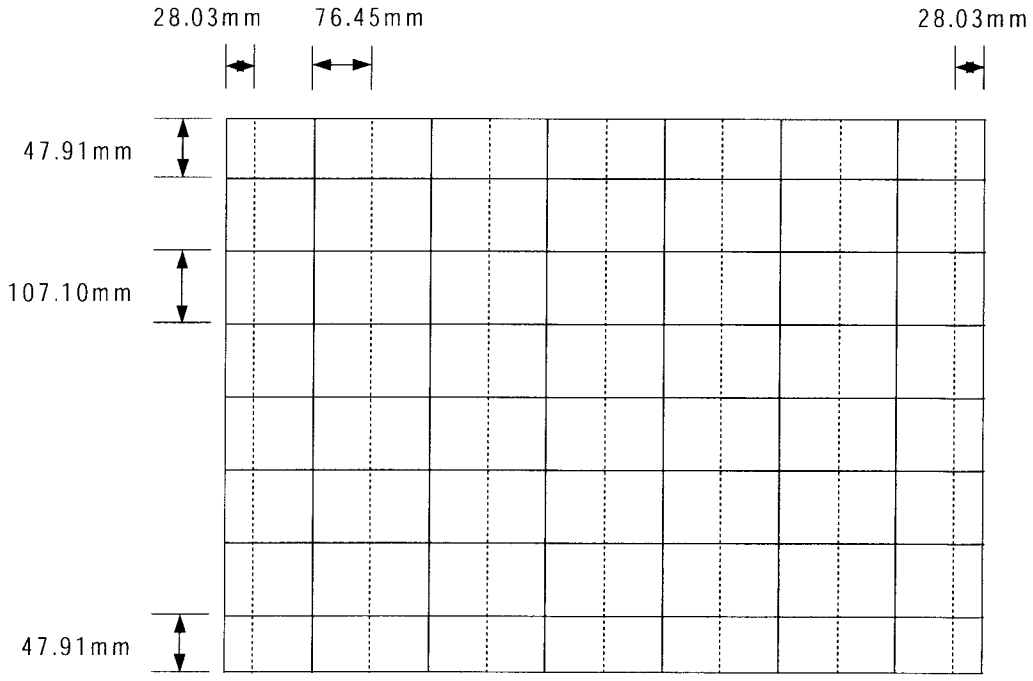
1-6-5 43T6/43T7

43T6 Screen Size : X 885, Y 666 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



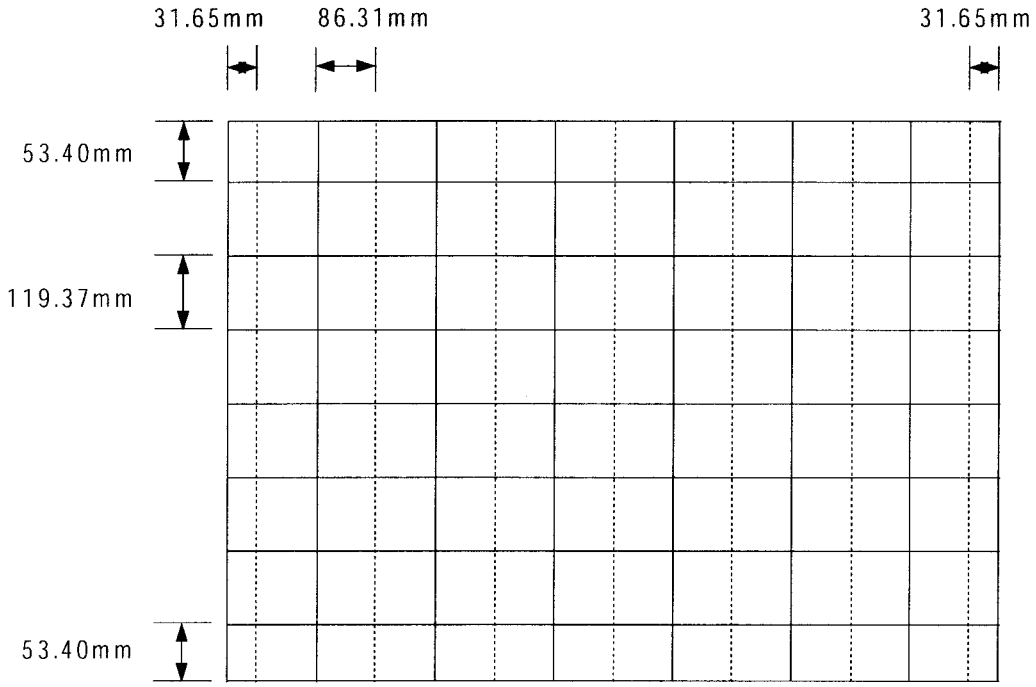
1-6-6 48T6

48T6 Screen Size : X 973.4 Y 738.4 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



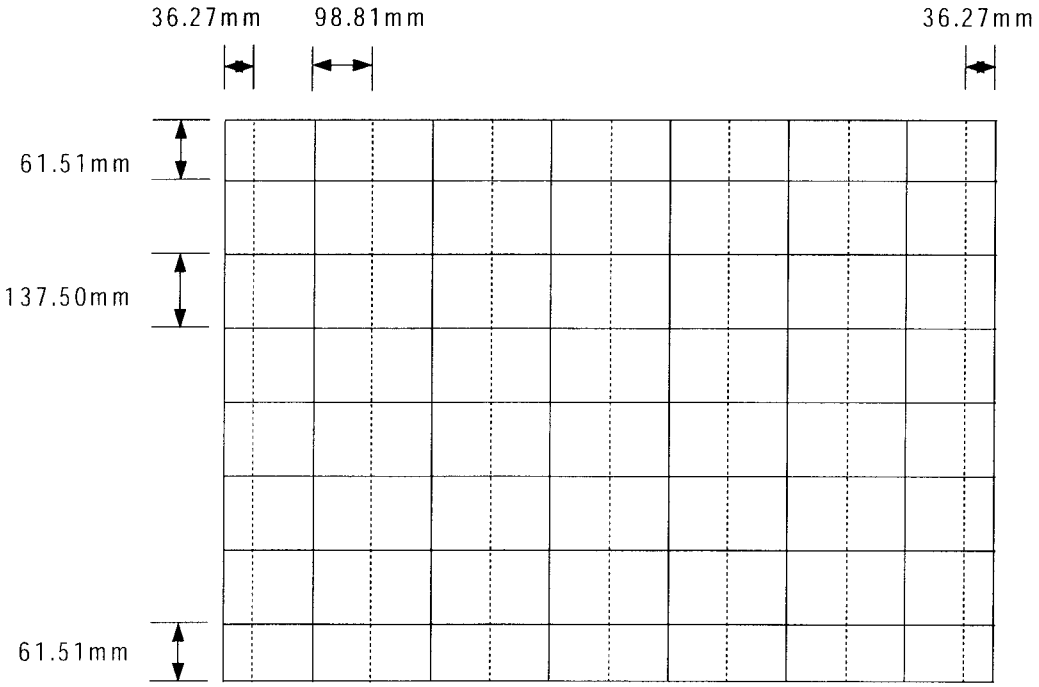
1-6-7 54T6

54T6 Screen Size : X 1099 Y 823 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE

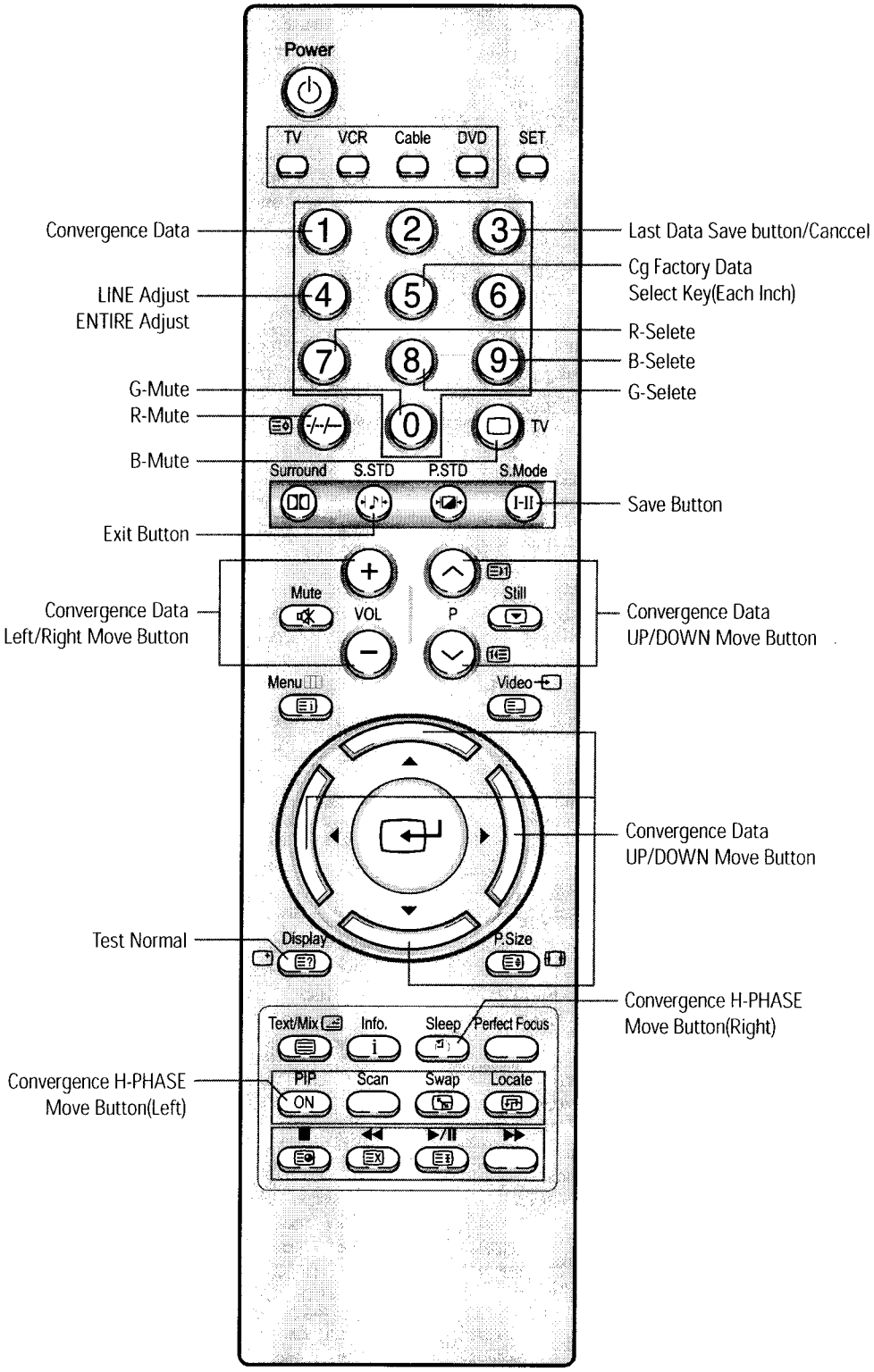


1-6-8 62T6

62T6 Screen Size : X 1259.4, Y 948 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



1-7 Remote Control for Servicing(Convergence Mode)



1-7-1 KEY Function

1. R-SELECT ⑦
   Press to select RED color.

2. G-SELECT ⑧
   Press to select GREEN color.

3. B-SELECT ⑨
   Press to select BLUE color.

4. R-MUTE
   Press to mute RED color.

5. G-MUTE ⓪
   Press to mute GREEN color.

6. B-MUTE TV
   Press to mute BLUE color.

7. CANCEL KEY ③
   Press to revert to the previous data during the Convergence Adjustment.

8. TEST/NORMAL Display
   Press to check TV mode in the Convergence Mode.

9. LINE SHIFT ④
   Press to move a line up/down or left/right.

10. FACTORY DATA SELECT BUTTON ②
    Press to call the factory default values.

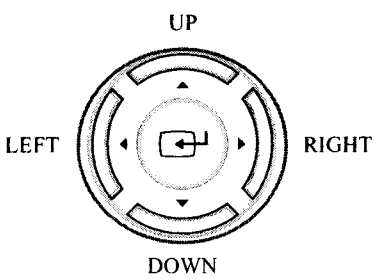
11. SAVE BUTTON S.Mode
    After the Convergence Adjustments are completed, press to save data.

12. EXIT BUTTON S.STD
    After the Convergence adjustments are completed, press to exit to TV mode.

13. CURSOR MOVE BUTTON

Press to move the cursor up/down or right/left.

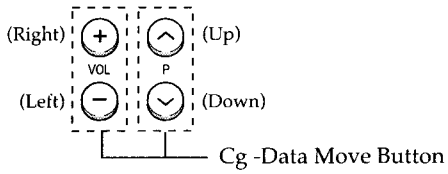
①



②

③ (Mute) Press to move the cursor left or up.
(Video) Press to move the cursor right or down.
(Menu) Press switch the cursor direction horizontally or vertically.

14. CONVERGENCE PICTURE MOVE BUTTON



15. CONVERGENCE MOVE BUTTON

Press to move the convergence right (PIP ON) or left (Sleep).

16. CONVERGENCE DATA ZERO BUTTON ①

Press to zero the convergence correction data.

17. INITIAL DATA SET BUTTON ②

Changes when applying Almighty-Cg, Module (How to extract the basic Cg Data)

Inch (Type)	Model Name	Basic Data	Screen Display
	Representative Model	Number after entring the Cg-Mode	
42" (42W5)	SP42W5	5-425 (Press in regular order)	□□□□ □□□□
47" (47W3)	SP47W3	5-473(Press in regular order)	□□□□
55" (55W3)	SP55W3	5-553(Press in regular order)	□□□□□
43" (43T6	SP43T6	5-436(Press in regular order)	++++
43" (43T7)	SP43T7	5-437(Press in regular order)	+++++
48" (48T6)	SP48T6	5-485(Press in regular order)	+++++
54" (54T6)	SP54T6	5-545(Press in regular order)	++++
62" (62T6)	SP62T6	5-625(Press in regular order)	++++ ++++
65"(65W3)	SP65W3		

18. Data shift Button Locate Press to transmit data(PAL Mode/NTSC Mode).

1-8 Convergence Adjustment

1-8-1 Convergence Adjustment

Special Notes

✏ A sensor is attached on the center of each side of the Convergence Mode pattern (see figure below). The sensors are required for normal Perfect Focus function.

✏ Use a screen jig to do the convergence adjustments correctly (Especially, perform correct convergence adjustments on the center of each side where a sensor is located.)

✏ Do the convergence adjustments correctly. Otherwise, any Perfect Focus error can happen.

1. Warm up the TV for a least 30 minutes.

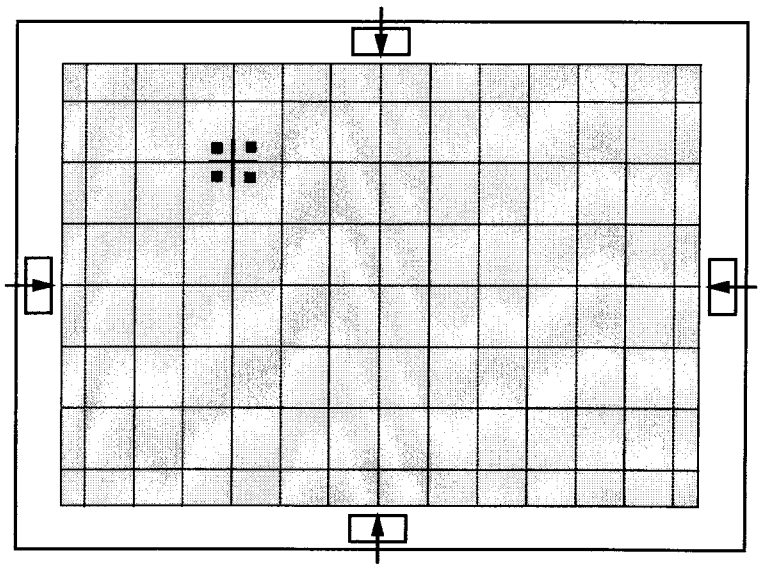
2. Input an PAL Signal.(Use an antenna or AV source.)

NOTE Make sure that deflection yoke are properly adjusted so that the center of Green, Red, Blue pattern is aligned on the center of screen jig.

3. Enter the Convergence Mode by Pressing the remote control keys in the following sequence:

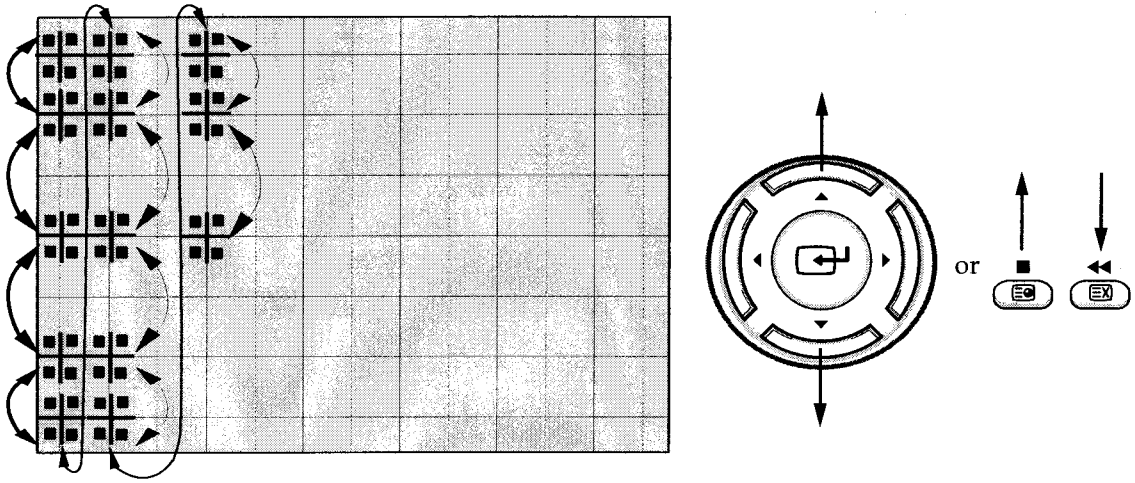
Mute → 1 → 8 → 3

NOTE If OSD displayed as shown in figure below, press the S.STD key to exit. Then, redo step 3 to enter the Convergence Mode.
After entering the Convergence Mode, Stand by for about five seconds before doing the adjustments.



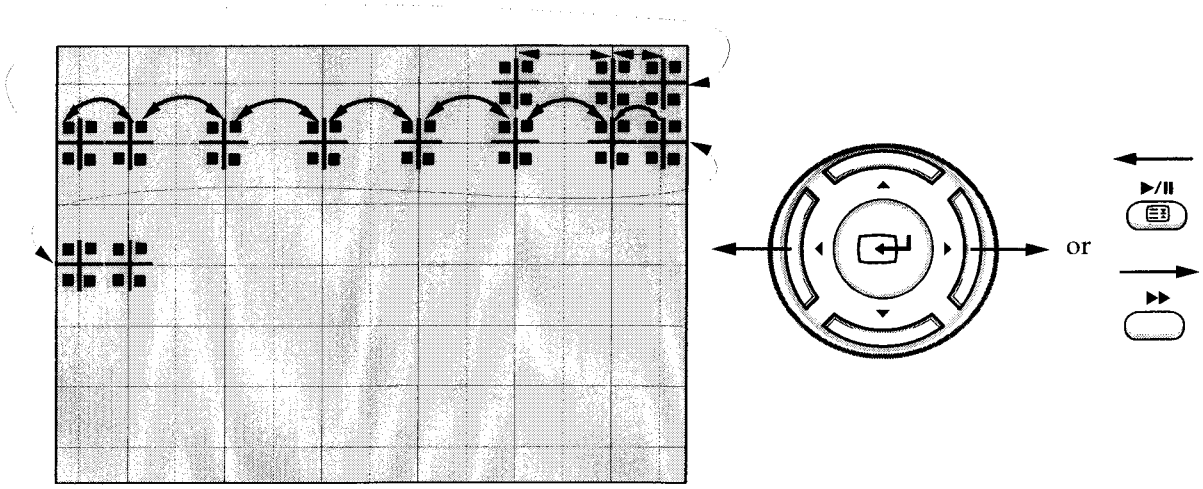
4. To adjust GREEN, first press the -/-/- and the TV keys, and then press the 8 key.

5. The Menu key moves the cursor horizontally or vertically

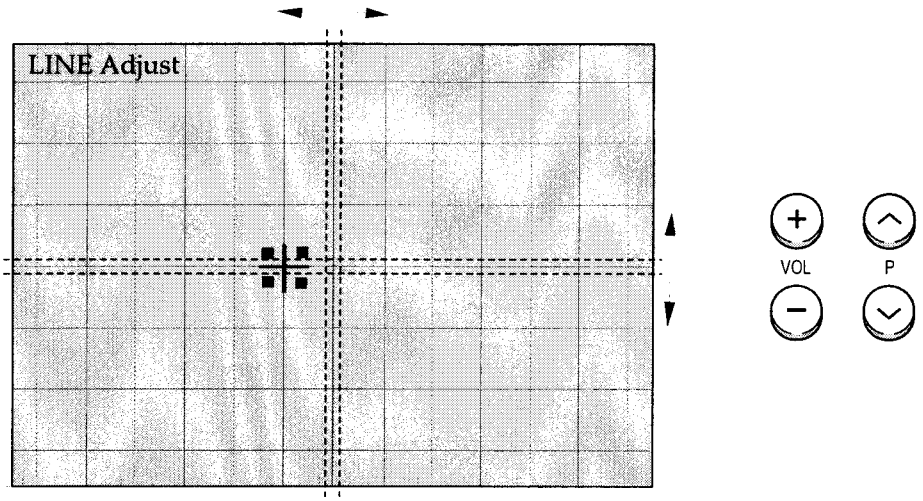


NOTE When the Menu key is pressed once again, the cursor moves horizontally.

6. The Mute key moves the cursor right, and the P.Size key moves the cursor left.



7. Use the (4) key for overall balance.

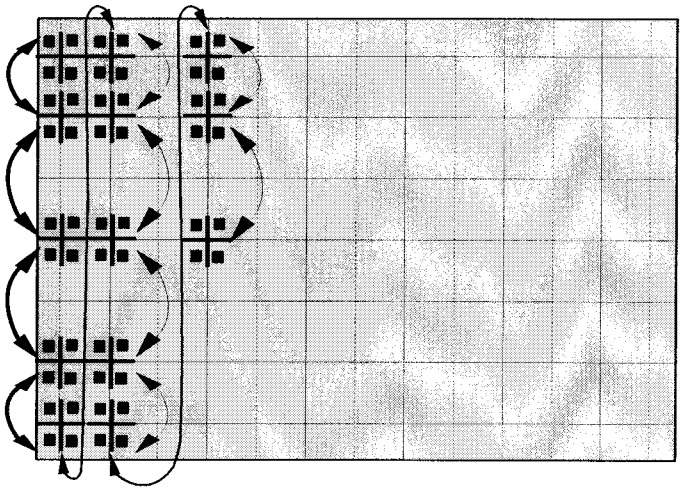


8. After the Line Shift is cancelled by pressing the (4) key, use the Channel and Volume keys (Up/Down/Right/Left) to make big adjustments.

9. After the green convergence adjustments are completed, press the S.Mode (I-II) key to save the data.

10. Superimpose the Red and Green colors by pressing the (-/--) and the (7) keys.

11. To adjust RED, redo steps 5~7.



When the cursor moves vertically Menu (E)

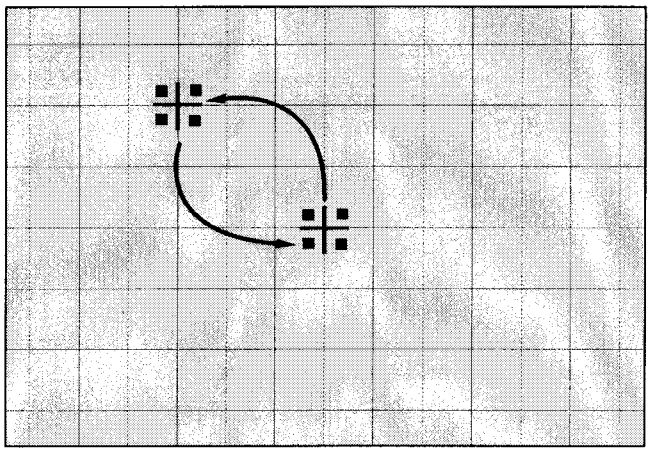
12. To superimpose the blue and green colors, press (1) the -/-/-- key for R-Mute, (2) the TV key to cancel the B-Mute, and (3) the 9 key for B-select.

13. To adjust BLUE, redo steps 5 ~ 7, 13.

14. If any color is not properly adjusted when displaying the red, blue and green colors, readjust the color.

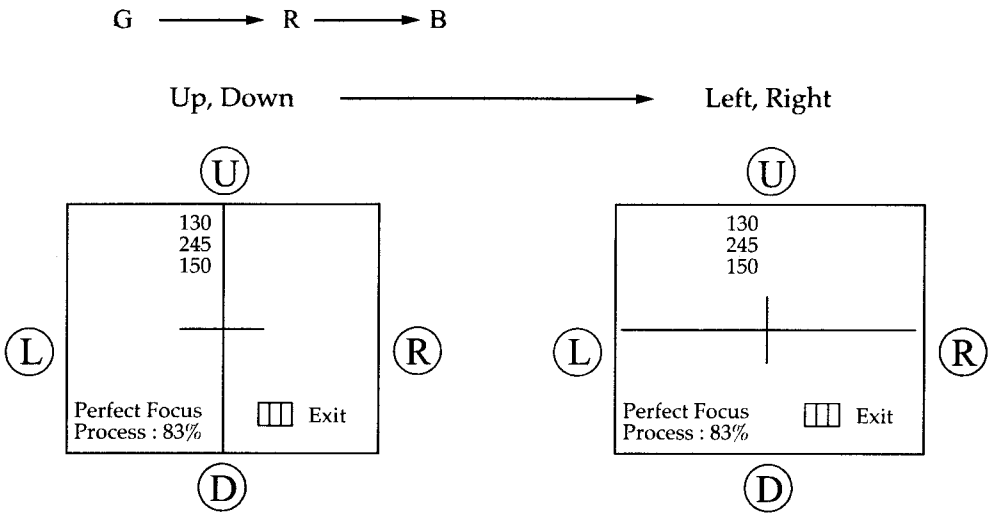
15. After the color adjustments are completed, press the S.Mode key to save the data.

NOTE The cursor moves to center, and then automatically moves up and to the left about five seconds later.



1-8-2 Perfect Focus(Factory Mode)

1. After the adjustment is completely saved, press the Perfect Focus key to perform Auto Convergence(Factory Mode). Auto Convergence is performed in the following sequences:



When Auto Convergence is complete, the data is automatically saved and the convergence pattern reverts.

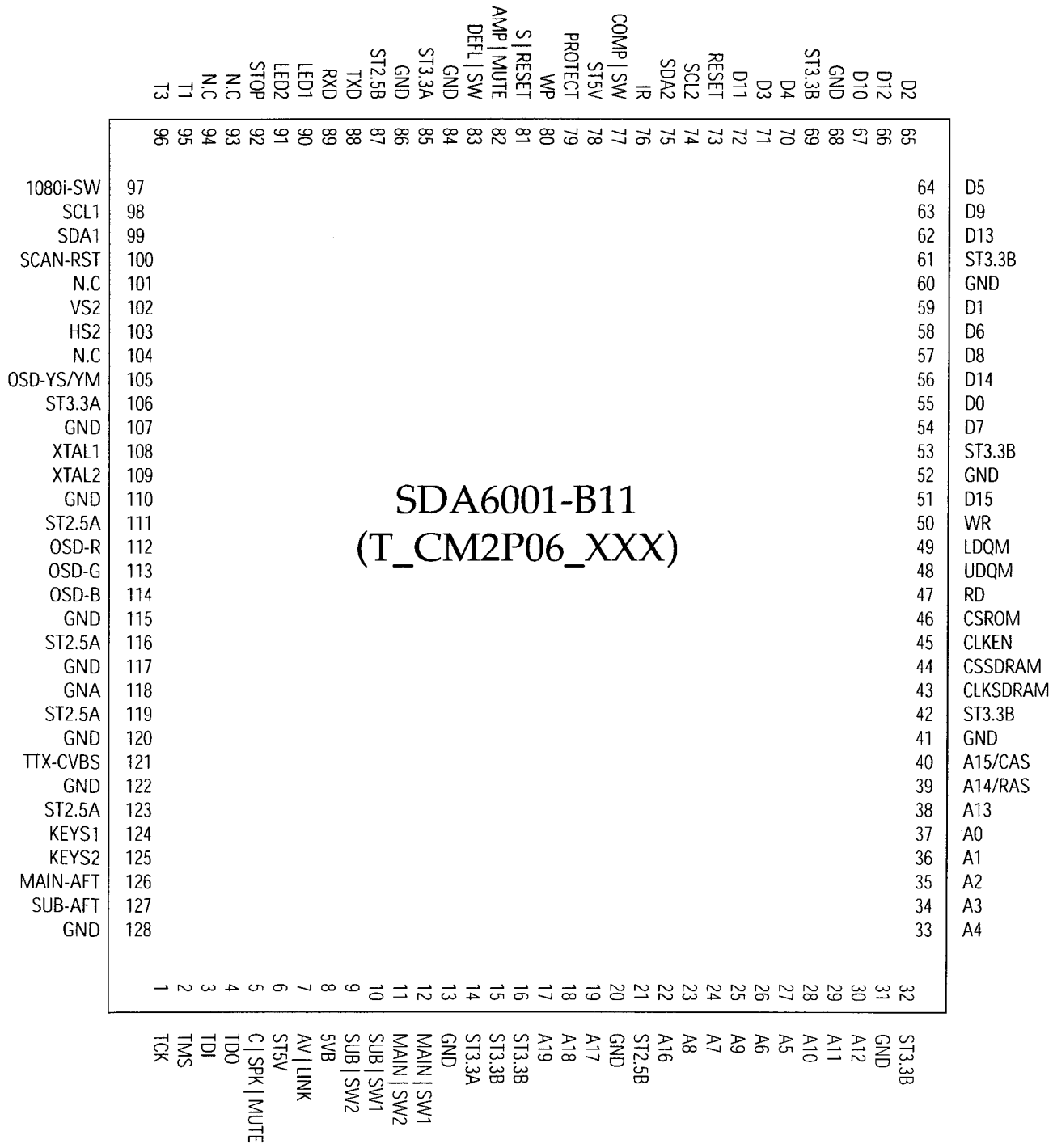
NOTE

- After Factory Auto Convergence is complete, make sure that the cursor flickers for about 1 second on the center and then it is saved.
- Check the presence of error through the flicker of the cursor.
- When any error happens, be sure to re-do Factory Auto Convergence.
- When Convergence Adjustment is not normally done or the convergence center is misaligned with the sensing point, any adjustment error happens. Therefore, be sure to use a screen jig to correctly adjust during troubleshooting.

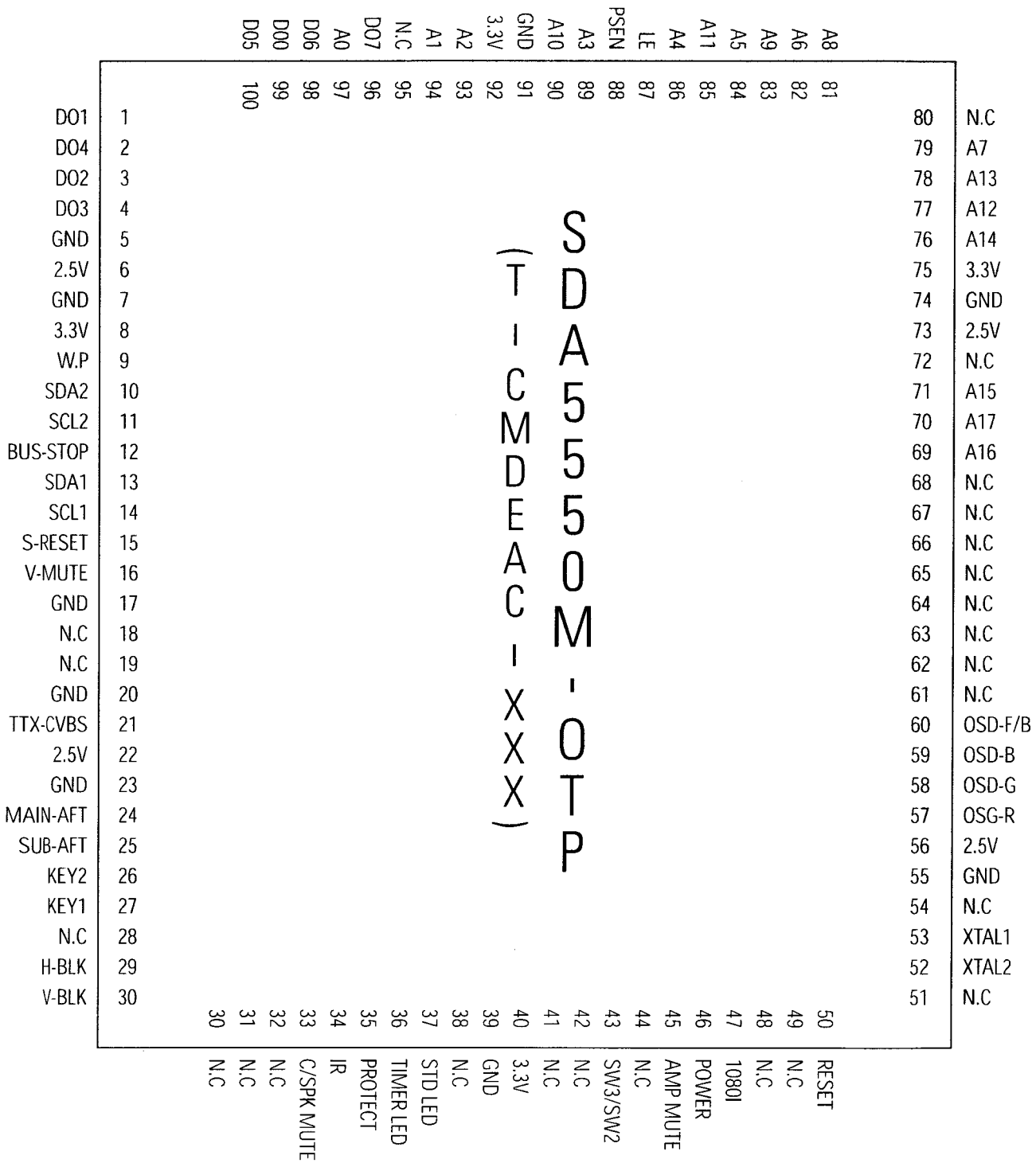
2. After the Convergence Adjustments are completed, press the S.STD key to exit.

1-9 MICOM and Pins Voltage

1-9-1 Pin Layout(T_CM2P06_XXX)



1-9-2 Pin Layout(T_CMDEAC_XXX)



1-9-3 MICOM MODULE Pins

PIN NO.	ITEM	FUNCTION	OUT VOLT
1	KEY 1	KEY SCAN1	2.28[V]
2	PROTECT	PROTECT PORT	0.83[mV]
3	KEY 2	KEY SCAN2	2.25[V]
4	GND	GND	-
5	N.C	N.C	-
6	STB-5(V)	VCC	4.91[V]
7	IR IN	REMOCON INPUT	3.74[V]
8	POWER	POWER ON/OFF RELAY CONTROL	1.03[V]
9	TIMER-LED	TIMER LED	2.07[V]
10	N.C	N.C	-
11	GND	GND	-
12	V-RESET	VIDEO RESET	2.84[mV]
13	SCL1	SERIAL CLOCK LINE1	3.43[V]
14	GND	GND	-
15	SDA1	SEREAL DATA LINE1	3.49[V]
16	S-RESET	SOUND RESET	4.21[V]
17	ST-BY-LED	STAND-BY LED	2.95[V]
18	RESET	RESET	2.47[V]
19	AMP-MUTE	SOUND AMP MUTE	0.89[mV]
20	N.C	N.C	-
21	GND	GND	-
22	N.C	N.C	-
23	SCL2	SERIAL CLOCK LINE2	3.27[V]
24	C-SPK MUTE	CENTER SPEAKER MUTE	3.26[V]
25	SDA2	SERIAL DATA LINE2	3.27[V]
26	SW3	SW3(CONTROL)	5[mV]
27	GND	GND	-
28	SW2	SW2(CONTROL)	2.08[V]
29	SUB-AFT	SUB TUNER AFT CONTROL	2.57[V]
30	GND	GND	-
31	MAIN-AFT	MAIN TUNER AFT CONTROL	1.04[V]
32	BUS-STOP	IIC BUS STOP	3.27[V]

PIN NO.	ITEM	FUNCTION	OUT VOLT
33	5[V]	5[V]	4.96[V]
34	H-BLANK	HORIZONTAL BLANK	215.8[mV]
35	GND	GND	-
36	V-BLANK	VERTICAL BLANK	-12.10[mV]
37	N.C	N.C	-
38	GND	GND	-
39	GND	GND	-
40	N.C	N.C	-
41	VS1	VERTICAL SYNC	-
42	N.C	N.C	-
43	HS1	HORIZONTAL SYNC	215.51[mV]
44	N.C	N.C	-
45	GND	GND	-
46	N.C	N.C	-
47	TTX-CVBS	TTX/CAPTION-CVBS	1.19[V]
48	GND	GND	-
49	GND	GND	-
50	N.C	N.C	-
51	AN-LINK	NOT USE	-
52	N.C	N.C	-
53	GND	GND	-
54	N.C	N.C	-
55	N.C	N.C	-
56	GND	GND	-
57	N.C	N.C	-
58	OSD-TTX-R	ON SCREEN DISPLAY RED	168[mV]
59	GND	GND	-
60	OSD-TTX-G	ON SCREEN DISPLAY GREEN	0.46[V]
61	WP	WRITE PROTECT	-
62	OSD-TTX-B	ON SCREEN DISPLAY BLUE	0.46[V]
63	3.3[V]	3.3[V]	3.26[V]
64	OSD-TTX-FB	OSD/TTX-FB	7.31[mV]

1-9-4 PROSCAN MODULE Pins

PIN NO.	ITEM	FUNCTION	OUT VOLT
1	EW	EAST WEST OUT	2.26[V]
2	V-BLK	VERTICAL BLANK	-12.07[mV]
3	ABL	ABL(Automatic Brightness Limiter)	2.26[V]
4	VD-	VERTICAL DRIVE(-VOLTAGE)	3.46[V]
5	VD+	VERTICAL DRIVE(+VOLTAGE)	3.53[V[
6	H-BLK	HORIZONTAL BLANK	215.93[mV]
7	HD	HORIZONTAL DRIVE	2.38[V]
8	GND	GND	-
9	OSD/TTX-FB	OSD/TTX-FB	7.29[mV]
10	OSD/TTX-B	ON SCREEN DISPLAY BLUE IN	0.46[mV]
11	OSD/TTX-G	ON SCREEN DISPLAY GREEN IN	0.46[mV]
12	OSD/TTX-R	ON SCREEN DISPLAY RED IN	167.99[mV]
13	V-RESET	VIDEO RESET	2.94[mV]
14	GND	GND	-
15	SCL1	SERIAL CLOCK LINE	3.42[V]
16	SDA1	SERIAL DATA LINE	3.50[V]
17	N.C	N.C	-
18	COMP	COMP	27.28[mV]
19	GND	GND	-
20	CG-R	CONVERGENCE RED	0.27[mV]
21	CG-G	CONVERGENCE GREEN	0.27[mV]
22	CG-B	CONVERGENCE BLUE	0.29[mV]
23	CG-SYNC	CONVERGENCE SYNC	180.03[mV]
24	D/F	DYNAMIC FOCUS	1.5[V]
25	GND	GND	-
26	9[V]	9[V]	9[V]
27	N.C	N.C	-
28	N.C	N.C	-
29	N.C	N.C	-
30	N.C	N.C	-
31	GND	GND	-
32	13.5[V]	13.5[V]	14.05[V]

PIN NO.	ITEM	FUNCTION	OUT VOLT
33	5[V]-DW1	5[V]-DW1	4.97[V]
34	VM-Y	VM-Y OUTPUT	1.97[V]
35	SW3	SW3(CONTROL)	4.98[mV]
36	SW2	SW2(CONTROL)	2.08[V]
37	N.C	N.C	-
38	GND	GND	-
39	PIP-C	PIP-C INPUT	1.20[mV]
40	PIP-Y CVBS	PIP-Y/CVBS INPUT	1.33[mV]
41	GND	GND	-
42	MAIN-C	MAIN-C INPUT	1.34[mV]
43	MAIN-Y CVBS	MAIN-Y/CVBS INPUT	1.57[mV]
44	N.C	N.C	-
45	GND	GND	-
46	N.C	N.C	-
47	GND	GND	-
48	RF2-CVBS	RF2-CVBS	-
49	DVD-Pr/R	DVD-Pr/R(SCART)	-
50	DVD-Y/G	DVD-Y/G(SCART)	-
51	DVD-Pb/B	DVD-Pb/B(SCART)	-
52	FB	FB(SCART)	-
53	GND	GND	-
54	N.C	N.C	-
55	N.C	N.C	-
56	N.C	N.C	-
57	GND	GND	-
58	DVD-Pr	DVD-Pr	-
59	DVD-Y	DVD-Y	-
60	DVD-Pb	DVD-Pb	-
61	GND	GND	-
62	5[V]-DW2	5[V]-DW2	4.89[V]
63	N.C	N.C	-
64	N.C	N.C	-

1-9-5 CONVERGENCE MODULE Pins

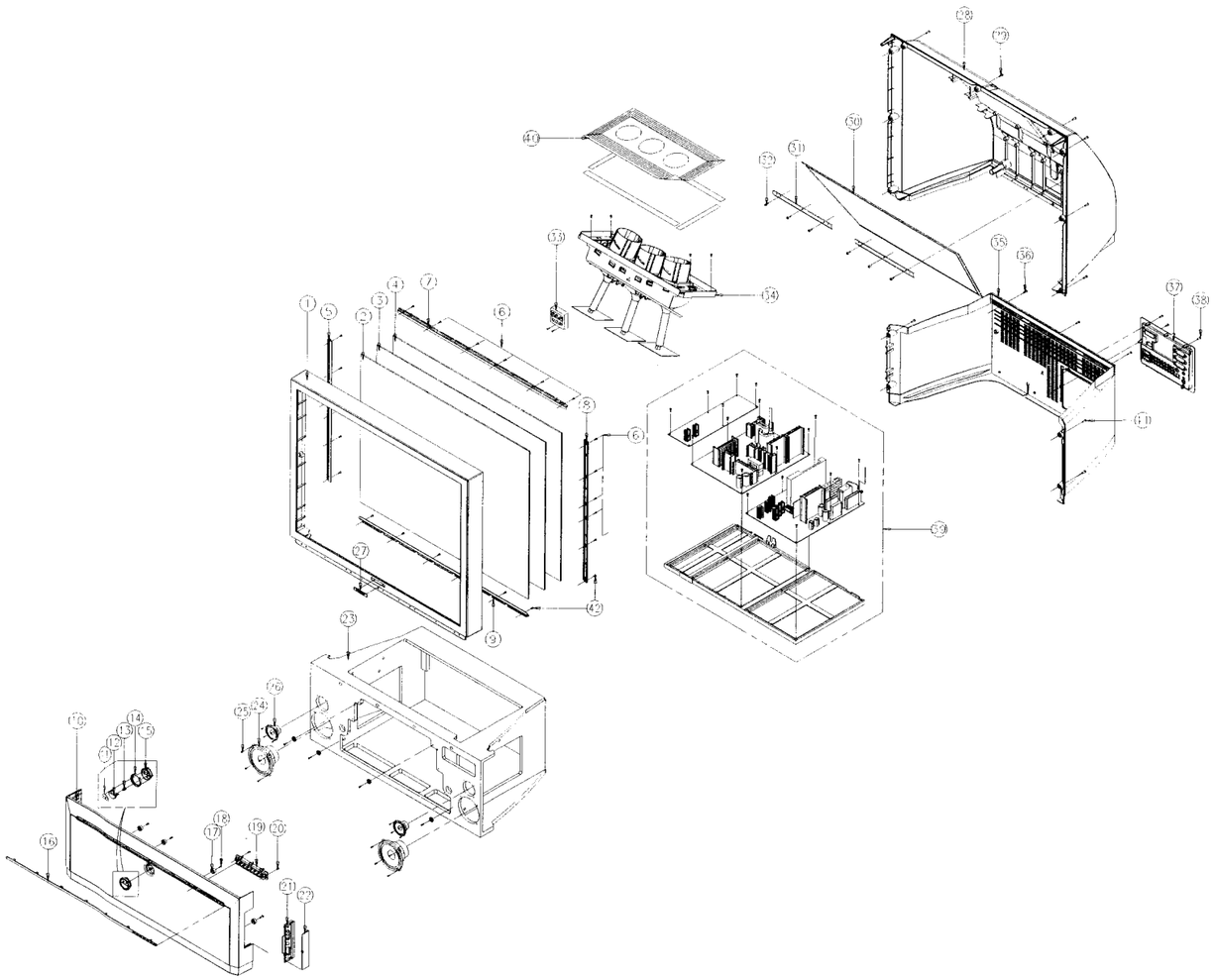
PIN NO.	ITEM	FUNCTION	OUT VOLT
1	5[V]-CG	5[V]-CG	5.2[V]
2	GND	GND	-
3	D/F	DYNAMIC FOCUS	1.5[V]
4	GND	GND	-
5	SCL1	SERIAL CLOCK LINE1	3.4[V]
6	CG-SYNC	CONVERGENCE SYNC	179[mV]
7	GND	GND	-
8	N.C	N.C	5.2[V]
9	CG-R	CONVERGENCE RED	0.27[mV]
10	CG-G	CONVERGENCE GREEN	0.26[mV]
11	CG-B	CONVERGENCE BLUE	0.29[mV]
12	SDA1	SERIAL DATA LINE1	3.5[V]
13	N.C	N.C	-
14	IR	INPUT REMOCON	3.7[V]
15	N.C	N.C	-
16	GND	GND	-
17	GND	GND	-
18	GND	GND	-
19	BV	BLUE VERTICAL OUT	34.27[mV]
20	BH	BLUE HORIZONTAL OUT	-107.32[mV]
21	GV	GREEN VERTICAL OUT	101.52[mV]
22	GH	GREEN HORIZONTAL OUT	-15.83[mV]
23	RV	RED VERTICAL OUT	104.32[mV]
24	RH	RED HORIZONTAL OUT	-88.95[mV]
25	GND	GND	-
26	H-BLK	HORIZONTAL BLANK	275[mV]
27	V-BLK	VERTICAL BLANK	-13.22[mV]
28	GND	GND	-
29	N.C	N.C	-
30	-5[V]	-5[V]	-4.99[V]
31	5[V]	5[V]	5.24[V]
32	GND	GND	-

MEMO

2. Exploded View & Parts List

2-1 SP43T7HF1

You can search for the updated part code through ITSELF web site.
URL : http://itself.sec.samsung.co.kr



No	Code No	Description	Specification	Q'ty	Remark	S.N.A
1		ASSY COVER P-CABINET,MASK;SP-43T7HF,HIPS		1		
2		SCREEN-FRESNEL;43N,-,T2,910*692,-,-,-,-		1		
4		SCREEN-TINT;43,908*690,P=0.52,DNP		1		
5		BRACKET-SCREEN,RIGHT-ASSY;43T7,SECC,T1.0		1		S.N.A
6		SCREW-SPECIAL;BH,+,-,M4,L12(11),ZPC(BLK)		20	BS+CFM	
7		BRACKET-SCREEN,TOP-ASSY;43T7,SECC,T1.0,S		1		S.N.A
8		BRACKET-SCREEN,LEFT-ASSY;43T7,SECC,T1.0,		1		S.N.A
9		BRACKET-SCREEN,BOT-ASSY;43T7,SECC,T1.0,S		1		S.N.A
10		ASSY COVER P-FRONT,BOT;43T7,HIPS HB,G766		1		
11		WINDOW-LED;43T7,PMMA,T3.0		1		S.N.A
12		KNOB-POWER;43T7,ABS,HB,G3676,CIS		1		
13		SPRING ETC-CS;-,SUS304,-,-,OD6,N7,OD6,-,		1		S.N.A
14		HOLDER-POWER,RMC;43T7,ABS HB,G3676,CR-CO		1		S.N.A
15		WINDOW-RMC;43T7,PC,CLR		1		S.N.A
16		COVER-DECORATION;43T7,ABS,HB,WHT,SVM6145		1		S.N.A
17		VELCRO-A;COMMANDO,BST1 1/4H		4		S.N.A
18		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		4	VC+CFB	S.N.A
19		KNOB-CONTROL;43T7,ABS,HB,G3676,SILVER		1		
20		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		2	KC+CFB	S.N.A
21		HOLDER-SIDE,A/V;43T7,ABS HB,G3676,SVM-11		1		S.N.A
22		DOOR-AV;43T7,ABS HB,G3676,SVM-1132		1		
23		ASSY COVER P-CABINET,WOOD;SVP-43T7HR,WOO		1		
24		SPEAKER;30W,8OHM,91DB,20HZ		2		
25		SCREW-WOOD;-,SWRCH18A,M4,L16,PH,+,-,-,ZP		12	SPK+CW	S.N.A
26		SPEAKER;20W,8OHM,95DB,1300HZ		2		
27		BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS		1		S.N.A
28		CABINET-BACK,TOP;43T7,HIPS,HB,G4309		1		
29		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		9	CBT+CF	S.N.A
30		MIRROR-BACK;43T7,SSM,795*569*554*(78)		1		
31		BRACKET-MIRROR,ASSY;42W5,SECC,T1.0,01123		2		
32		SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR		6	BM+CBT	S.N.A
33		TRANS FBT-H/V DISTRIBUTOR;FWZ50A001E/FFA		1		
34		BRACKET-CRT,MAIN;54,SECC,T1.6,-,-,-,-		1		
35		CABINET-BACK,BOT;43T7,HIPS,HB,G4309		1		
36		SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A		3	CBB+CW	S.N.A
37		ASSY COVER P-TERMINAL,ANT;43T7HF,HIPS VO		1		
38		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		3	CBB+TB	S.N.A
39		ASSY CHASSIS;SP43T7HFX/SAP,J54A		1	*	S.N.A
40		SPACER-COVER,DUST;43T7,SPONGE 94HF-1,T3.		1		S.N.A
41		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		4	CBBCFB	S.N.A
42		SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,		4	BS+CFM	S.N.A

2-2 SP42W5HF

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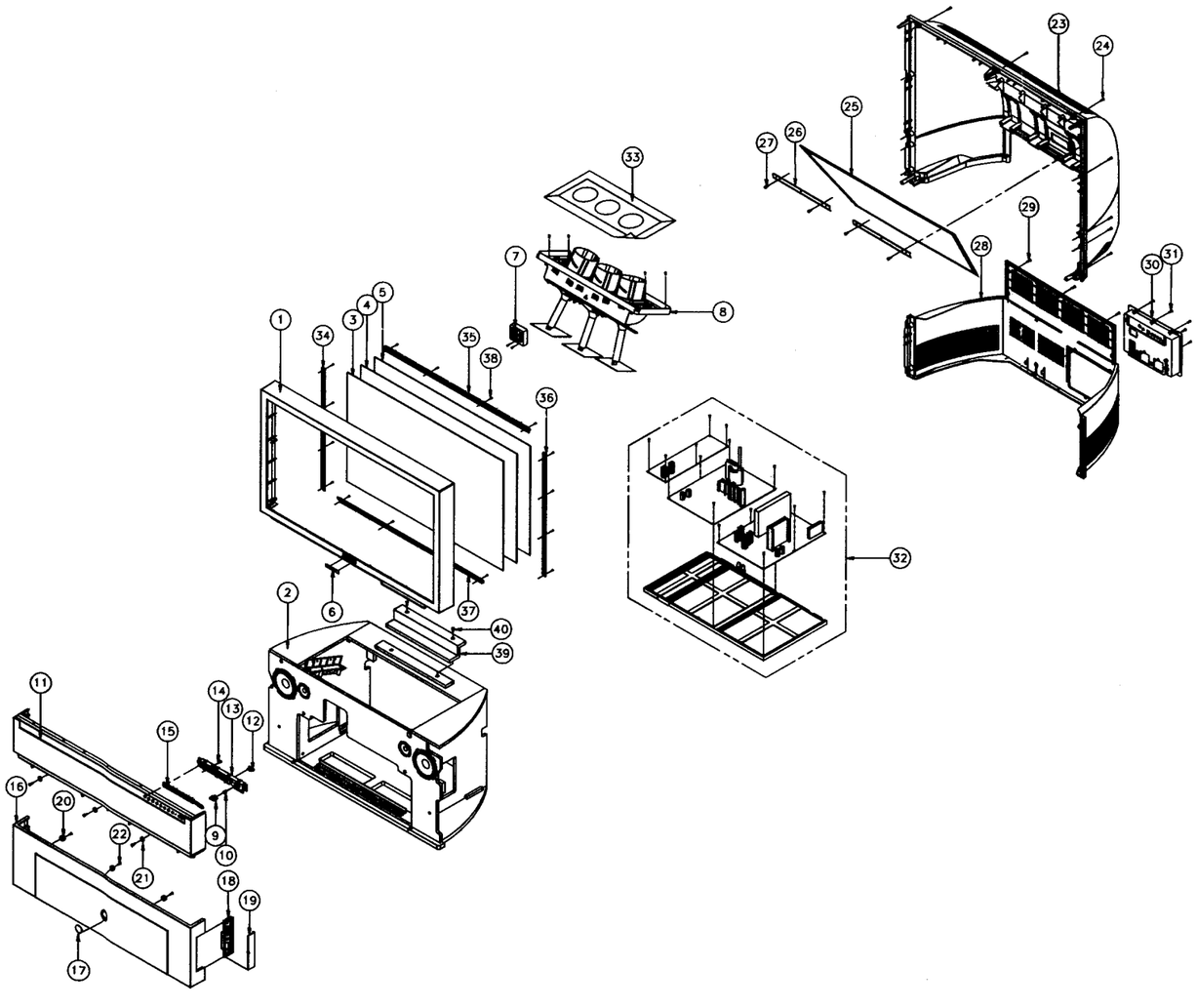

No	Code No	Description	Specification	Q'ty	Remark	S.N.A
1		ASSY-FRONT,MASK;,HIPS HB,G4309,SVM1132,4		1		
2		ASSY-CABINET,WOOD;,WOOD,EUP,42W5		1		S.N.A
3		SCREEN-FILTER;T=82%,960*552*2,G=110,AG		1		
4		SCREEN-TINT;42W,958*550,T=0.7,P=052		1		
5		SCREEN-FRESNEL;42W,960*552,T=2.0		1		
6		BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS		1		
7		MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-		1		
8		ASSY PRT;SP42W5HFX/XEO,J52A		1		S.N.A
9		KNOB-POWER;42W5,ABS,HB,G3676,COT		1		
10		SPRING ETC-CS;-,SUS304,-,-,OD6,N7,OD6,-,		1		S.N.A
11		CABINET-PANEL,CONTROL;42W5,HIPS,HB,G4309		1		S.N.A
12		WINDOW-RMC,LED;42W5,PC,CLR		1		S.N.A
13		KNOB-CONTROL;42W5,ABS,HB,G3676,COT		1		
14		SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR		4	KC+CPC	S.N.A
15		GUIDE-KNOB,CONTROL;42W5,ABS HB,G3676,SVM		1		S.N.A
16		CABINET-FRONT,BOT;42W5,HIPS,HB,G4309,SVM		1		
17		BADGE-DECORATION;42W5,AL,NI,RS		1		
18		HOLDER-SIDE,A/V;42W5,ABS HB,G3676,SV-704		1		S.N.A
19		DOOR-AV;42W5,ABS HB,G3676,SV-704P		1		
20		VELCRO-A;COMMANDO,BST1 1/4H		3		S.N.A
20		VELCRO-A;COMMANDO,BST1 1/4H		1		S.N.A
21		VELCRO-B;COMMANDO,BST1 1/4H		1		S.N.A
21		VELCRO-B;COMMANDO,BST1 1/4H		3		S.N.A
22		SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR		1	VC+CPC	S.N.A
24		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		7	CBT+CF	S.N.A
25		MIRROR-FRONT;42W5,FSM,870*633*446		1		S.N.A
26		BRACKET-MIRROR,ASSY;42W5,SECC,T1.0,01123		2		S.N.A
27		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		4	BM+CBT	S.N.A
28		CABINET-BACK,BOT;42W5,HIPS,HB,G4309		1		
29		SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A		3	HC+CW	S.N.A
30		ASSY COVER P-TERMINAL,ANT;42W5,HIPS VO,B		1		S.N.A
31		SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWR		2	TB+RJK	S.N.A
32		ASSY CHASSIS;SP42W5HFX/XEO,J52A,		1		S.N.A
33		SPACER-COVER,DUST;43,54,62J9,SPONGE 94HF		1		S.N.A
34		BRACKET-SCREEN,ASSY(R);42W5,SECC,T1.0,NE		1		S.N.A
35		BRACKET-SCREEN,ASSY(TOP);42W5,SECC,T1.0,		1		S.N.A
36		BRACKET-SCREEN,ASSY(L);42W5,SECC,T1.0,NE		1		S.N.A
37		BRACKET-SCREEN,ASSY(BOT);42W5,SECC,T1.0,		1		S.N.A
38		SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,		20	BS+CF	S.N.A
39		INLAY-SUPPORT;42W5,PS SHEET,T0.5,94V0		1		S.N.A
40		SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A		2	IS+CW	S.N.A

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3. Electrical Parts List

3-1 SP43T7HF1X/BOB

Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00525A	ASSY CPT-R;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA33-00016A	MAGNET CONVERGENCE;,JH 92LT - 29F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00845A	CASE-COUPLER,R;DP,PROJ,AA61-00806B	
2	AA03-00200A	CRT MONO;P16LSG03RJA,-,7inch,-,-,-,FLAT	
2	AA67-00157A	LENS;,DELTA 240,RED,C-ELEMENT	
2	AA67-10008A	LENS;-,-,DELTA,77,RED,S4388,-	
2	AA67-00188A	LENS;DELTA71,RED C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00526A	ASSY CPT-G;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00846A	CASE COUPLER G;DP,PROJ,AA61-00807B	
2	AA03-00201A	CRT MONO;P16LSG03HKA,-,7inch,-,-,-,FLAT	
2	AA67-00158A	LENS;,DELTA 240,GREEN,C-ELEMENT	
2	AA67-10071A	LENS;DELTA 77 79,-,GREEN,C ELEMENT,	
2	AA67-00189A	LENS;DELTA71,GREEN C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00527A	ASSY CPT-B;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	

Loc. No.	Code No.	Description ; Specification	Remark
2	AA33-00018A	MAGNET CONVERGENCE;,JH 92LT - 36F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00847A	CASE-COUPLER,B;DP,PROJ,AA61-00808B	
2	AA03-00202A	CRT MONO;P16LSG03BMB,-,7inch,-,-,-,FLAT	
2	AA67-00156A	LENS;,DELTA 240,CLEAR,C-ELEMENT	
2	AA67-10007A	LENS;-,-,DELTA,77,CLEAR,S4388,-	
2	AA67-00190A	LENS;DELTA71,CLEAR C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00245M	ASSY CHASSIS;SP43T7HFS,J54A,C2.0	
1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP,PCL545R,P54A,AA95	
1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP,HCM4215W3S/XAA,	
1	BP94-00328A	ASSY PCB MISC-CONTROL POWER;DP,SP43T7HPS	
1	BP94-00238A	ASSY PCB MISC-VM;DP,HCM4215W3S/XAA,P55A	
1	BP94-00353A	ASSY PCB MISC-A/V FRONT;DP, SP43T7HPS/XE	
1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP,SP43T7HFS,J54A,	
1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP,SP43T7HFS,J54A,C	
1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP, BP96-0003	
1	BP94-00329A	ASSY PCB MISC-CONTROL SIDE;DP,SP43T7HPS/	
1	BP94-00257A	ASSY PCB CRT-PCB;DP,SP42W5HFS/XEF,J54A	
2	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-	
2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
1	AA96-20130A	ASSY-POWER,CORD;-,CP2/NO(4.0R),H/C150,KJ	
1	AA39-30007A	IF-CABLE;-,T,100mm,1365#26	
1	AA39-00006A	CABLE-RCA;-,RCA,3000MM,0.12/10,RED/WHT/Y	
1	BP98-00244A	ASSY K/D-CABINET,WOOD;43T7, AA64-02731C,	
2	AA60-10051A	SCREW-WOOD;-,SWRCH18A,M4,L16,PH,+,-,-,ZP	
2	AA60-10051B	SCREW-WOOD;-,SWRCH18A,M3.5,L11,RH,+,-,-,	
2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,-,-,-,BLK,HB,480	
2	AA61-00097A	HOLDER-WIRE;-,NYLON 6/6,-,-,-,NTR,-	
2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	AA61-00533B	BRACKET-GRILLE;43,54,62J8,SECC-1 ,T0.5,-	
2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,-,AA61-005	
2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA61-01213A	BRACKET-GRILLE;43T7,SECC,T0.5	
2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,-,-,-,-	
2	AA64-02731C	CABINET-WOOD;43T7,WOOD,SDE8336R XGA	
2	AA65-00014B	CLAMPER CORE-WIRE;GPM-51A,PP,HB,-,BLK,-	
2	BP61-00019A	HOLDER-PALLET;42W5,HIPS HB,BLK	
2	3001-001353	SPEAKER;25W,8OHM,90DB+/-3DB,60HZ+/-12HZ	
2	3001-001107	SPEAKER;20W,8ohm,95dB,1300Hz	
2	AA39-00086A	LEAD CONNECTOR-ASSY;,2.2UF,REC,REC,200MM	
2	AA98-00049A	ASSY-LEAD,CON;-,LEAD-CON,CORE,AA39-20505	
3	3301-001201	CORE-FERRITE;AE,21x11x32mm,1500,280G	
2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
2	6006-001094	SCREW-ASS'Y WOOD;WW,HH,+,M7,L32,ZPC(YEL)	
2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
1	BP96-00016H	ASSY COVER P-CAINET MASK;DP,43T7,AA64-02	
2	AA64-02733E	CABINET-FRONT,MASK TOP;43T7HF,HIPS,HB,G4	

Loc. No.	Code No.	Description ; Specification	Remark
1	BP64-00017B	CABINET-BACK,BOT;DP,43T7,AA64-02735B	
1	BP64-00016A	CABINET-BACK,TOP;DP,43T7,AA64-02734A	
1	BP64-00015B	CABINET-FRONT,BOT;DP,43T7 EUR,AA64-02732	
1	AA67-00195A	SCREEN-TINT;43,908*690,T=0.73,P=0.52	
1	AA67-00115B	SCREEN-FRESNEL;43N,-,T2,910*692,-,-,-	
1	AA67-00129A	SUN SCREEN-AG;43J8,T=82%,910*692*2,G=110	
1	BP61-00016A	BRACKET-SCREEN,TB;DP,43T7,AA61-01124A	
1	BP61-00017A	BRACKET-SCREEN,RL;DP,43T7,AA61-01125A	
1	BP61-00012A	BRACKET-MIRROR;DP,42W5,AA61-01123A,11.8K	
1	AA60-00072C	SPACER-COVER,DUST;43T7,SPONGE 94HF-1,T3.	
1	AA63-60122J	SPACER-FELT;SPD-50P3H,FELT,L530,D20,T0.3	
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER	
1	AA67-00205D	MIRROR-BACK;DP,43T7,SSM,795*569*554*(78)	
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,-	
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547	
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP,UL2547#26,U	
1	BP39-00048A	LEAD CONNECTOR;P55A/SVP-47W3HRT,UL1617#2	
1	AA61-00049B	HOLDER-BOX;-,PP,-,-,-,NTR,V0,AA61-20285A	
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET	
1	BP61-00052A	HOLDER-WIRE;PJTV,NYLON,66,NATURAL	
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149.3X69.5	
1	BP64-00044A	INLAY-VENT;43T7,PS SHEET,T0.5	
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,-,DATL-60	
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66	
1	AA65-30008A	CLAMP-CORD;-,PE,HB,-,BLK,-	
1	AA65-30013A	CLAMP-WIRE;-,NYLON-6	
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	AA63-10007B	BAND-PP;W18,CLEA	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW	
1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK)	
1	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A	
1	6005-001004	SCREW-WOOD;HH,+,M4,L27,BLK,SWRCH18A	
1	6009-001296	SCREW-SPECIAL;BH,+,-,M4,L12(11),ZPC(BLK)	
1	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR	
1	BP69-00020A	PACKING CASE-OUT;43T7,H-3 YEL,C3,1045.63	
1	BP69-00021A	PACKING-COVER,BOT;43T7,H-3 AB,C3,YEL,965	
1	AA69-01652A	CUSHION-SET;43T7,PS FOAMED,C=0.02	
1	BP59-00008A	REMOCON;,TM65A,COMMOANDO,J54A,49,L/GRAY,	
1	BP68-00092A	MANUAL USERS;SP43T7HF,BG,W/P100G,J54A,B5	
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A	
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL,-,WHT,L250	
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM	
1	AA68-00340A	LABEL-WARRANTY;-,-,-,WHT,75MM,20	
1	AA68-00344A	LABEL-TRANSFER BOX;-,TF-53B	
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI	
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-,TF-53B5D	
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,	
1	AA68-01070A	LABEL-MODEL;-,A/P,-,30,20,-,-,-,ALL MODE	
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL	
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK	
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK	
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5	
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE	
1	AA69-00862A	BAG PE;-,HDPE PE FOAM,T0.03,W400,H240	
1	AA69-00744L	BAG-SHEET;-,HDPE PE FOAM,T0.015,W1650,H1	
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-	
1	AA63-70002B	SHEET;,PE-FOAM,T1.0,50G	

You can search for the updated part code through ITSELF web site.
URL : http://itself.sec.samsung.co.kr

3-2 SP43T7HF1X/EUE

Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00525A	ASSY CPT-R;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA33-00016A	MAGNET CONVERGENCE;JH 92LT - 29F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00845A	CASE-COUPLER,R;DP,PROJ,AA61-00806B	
2	AA03-00200A	CRT MONO;P16LSG03RJA,-,7inch,-,-,-,FLAT	
2	AA67-00157A	LENS;,DELTA 240,RED,C-ELEMENT	
2	AA67-10008A	LENS;-,-,DELTA,77,RED,S4388,-	
2	AA67-00188A	LENS;DELTA71,RED C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00526A	ASSY CPT-G;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00846A	CASE COUPLER G;DP,PROJ,AA61-00807B	
2	AA03-00201A	CRT MONO;P16LSG03HKA,-,7inch,-,-,-,FLAT	
2	AA67-00158A	LENS;,DELTA 240,GREEN,C-ELEMENT	
2	AA67-10071A	LENS;DELTA 77 79,-,GREEN,C ELEMENT,	
2	AA67-00189A	LENS;DELTA71,GREEN C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00527A	ASSY CPT-B;SP43T7HPX/XEF,J54A	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA33-00018A	MAGNET CONVERGENCE;JH 92LT - 36F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00847A	CASE-COUPLER,B;DP,PROJ,AA61-00808B	
2	AA03-00202A	CRT MONO;P16LSG03BMB,-,7inch,-,-,-,FLAT	
2	AA67-00156A	LENS;,DELTA 240,CLEAR,C-ELEMENT	
2	AA67-10007A	LENS;-,-,DELTA,77,CLEAR,S4388,-	
2	AA67-00190A	LENS;DELTA71,CLEAR C ELEMENT	
2	AA67-00147A	LENS-ASSY;,DELTA 78,CLEAR A/B	
1	BP91-00245M	ASSY CHASSIS;SP43T7HFS,J54A,C2.0	
1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP,PCL545R,P54A,AA95	
1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP,HCM4215W3S/XAA,	
1	BP94-00328A	ASSY PCB MISC-CONTROL POWER;DP,SP43T7HPS	
1	BP94-00238A	ASSY PCB MISC-VM;DP,HCM4215W3S/XAA,P55A	
1	BP94-00353A	ASSY PCB MISC-A/V FRONT;DP, SP43T7HPS/XE	
1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP,SP43T7HFS,J54A,	
1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP,SP43T7HFS,J54A,C	
1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP, BP96-0003	
1	BP94-00329A	ASSY PCB MISC-CONTROL SIDE;DP,SP43T7HPS/	
1	BP94-00257A	ASSY PCB CRT-PCB;DP,SP42W5HFS/XEF,J54A	
2	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-	
2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
1	AA96-20130A	ASSY-POWER,CORD;-,CP2/NO(4.0R),H/C150,KJ	
1	AA39-30007A	IF-CABLE;-,T,100mm,1365#26	
1	AA39-00006A	CABLE-RCA;-,RCA,3000MM,0.12/10,RED/WHT/Y	
1	BP98-00244A	ASSY K/D-CABINET,WOOD;43T7, AA64-02731C,	
2	AA60-10051A	SCREW-WOOD;-,SWRCH18A,M4,L16,PH,+,-,-,ZP	
2	AA60-10051B	SCREW-WOOD;-,SWRCH18A,M3.5,L11,RH,+,-,-,	
2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,-,-,-,BLK,HB,480	
2	AA61-00097A	HOLDER-WIRE;-,NYLON 6/6,-,-,-,NTR,-	
2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	AA61-00533B	BRACKET-GRILLE;43,54,62J8,SECC-1 ,T0.5,-	
2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,-,AA61-005	
2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA61-01213A	BRACKET-GRILLE;43T7,SECC,T0.5	
2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,-,-,-,-	
2	AA64-02731C	CABINET-WOOD;43T7,WOOD,SDE8336R XGA	
2	AA65-00014B	CLAMPER CORE-WIRE;GPM-51A,PP,HB,-,BLK,-	
2	BP61-00019A	HOLDER-PALLET;42W5,HIPS HB,BLK	
2	3001-001353	SPEAKER;25W,8OHM,90DB+/-3DB,60HZ+/-12HZ	
2	3001-001107	SPEAKER;20W,8ohm,95dB,1300Hz	
2	AA39-00086A	LEAD CONNECTOR-ASSY;,2.2UF,REC,REC,200MM	
2	AA98-00049A	ASSY-LEAD,CON;-,LEAD-CON,CORE,AA39-20505	
3	3301-001201	CORE-FERRITE;AE,21x11x32mm,1500,280G	
2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
2	6006-001094	SCREW-ASS'Y WOOD;WW,HH,+,M7,L32,ZPC(YEL)	
2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
1	BP96-00016H	ASSY COVER P-CAINET MASK;DP,43T7,AA64-02	
2	AA64-02733E	CABINET-FRONT,MASK TOP;43T7HF,HIPS,HB,G4	
1	BP64-00017B	CABINET-BACK,BOT;DP,43T7,AA64-02735B	
1	BP64-00016A	CABINET-BACK,TOP;DP,43T7,AA64-02734A	
1	BP64-00015B	CABINET-FRONT,BOT;DP,43T7 EUR,AA64-02732	
1	AA67-00195A	SCREEN-TINT;43,908*690,T=0.73,P=0.52	
1	AA67-00115B	SCREEN-FRESNEL;43N,-,T2,910*692,-,-,-	
1	AA67-00129A	SUN SCREEN-AG;43J8,T=82%,910*692*2,G=110	
1	BP61-00016A	BRACKET-SCREEN,TB;DP,43T7,AA61-01124A	
1	BP61-00017A	BRACKET-SCREEN,RL;DP,43T7,AA61-01125A	
1	BP61-00012A	BRACKET-MIRROR;DP,42W5,AA61-01123A,11.8K	
1	AA60-00072C	SPACER-COVER,DUST;43T7,SPONGE 94HF-1,T3.	
1	AA63-60122J	SPACER-FELT;SPD-50P3H,FELT,L530,D20,T0.3	
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER	

Loc. No.	Code No.	Description ; Specification	Remark
1	AA67-00205D	MIRROR-BACK;DP,43T7,SSM,795*569*554*(78)	
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,-	
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547	
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP,UL2547#26,U	
1	BP39-00048A	LEAD CONNECTOR;P55A/SVP-47W3HRT,UL1617#2	
1	AA61-00049B	HOLDER-BOX;-,PP,-,-,-,NTR,V0,AA61-20285A	
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET	
1	BP61-00052A	HOLDER-WIRE;PJTV,NYLON,66,NATURAL	
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149.3X69.5	
1	BP64-00044A	INLAY-VENT;43T7,PS SHEET,T0.5	
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,-,DATL-60	
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66	
1	AA65-30008A	CLAMP-CORD;-,PE,HB,-,BLK,-	
1	AA65-30013A	CLAMP-WIRE;-,NYLON-6	
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	AA63-10007B	BAND-PP;W18,CLEA	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW	
1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK)	
1	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A	
1	6005-001004	SCREW-WOOD;HH,+,M4,L27,BLK,SWRCH18A	
1	6009-001296	SCREW-SPECIAL;BH,+,-,M4,L12(11),ZPC(BLK)	
1	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR	
1	BP69-00020A	PACKING CASE-OUT;43T7,H-3 YEL,C3,1045,63	
1	BP69-00021A	PACKING-COVER,BOT;43T7,H-3 AB,C3,YEL,965	
1	AA69-01652A	CUSHION-SET;43T7,PS FOAMED,C=0.02	
1	BP59-00008A	REMOCON;,TM65A,COMMOANDO,J54A,49,L/GRAY,	
1	BP68-00099A	MANUAL USERS;SP43T7HF,GE,W/100G,J54A,B5,	
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL,-,WHT,L250	
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM	
1	AA68-00340A	LABEL-WARRANTY;-,-,-,WHT,75MM,20	
1	AA68-00344A	LABEL-TRANSFER BOX;-,TF-53B	
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI	
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-,TF-53B5D	
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,	
1	AA68-01070A	LABEL-MODEL;-,A/P,-,30,20,-,-,-,ALL MODE	
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL	
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A	
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK	
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK	
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5	
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE	
1	AA69-00862A	BAG PE;-,HDPE PE FOAM,T0.03,W400,H240	
1	AA69-00744L	BAG-SHEET;-,HDPE PE FOAM,T0.015,W1650,H1	
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-	
1	AA63-70002B	SHEET;,PE-FOAM,T1.0,50G	

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Loc. No.	Code No.	Description ; Specification	Remark
1	AA91-04077A	ASSY CPT-R;,P16LSG03RJA,42,VENUS,D7	
1	AA91-04078A	ASSY CPT-G;,P16LSG03HKA,42,VENUS,D7	
1	AA91-04079A	ASSY CPT-B;,P16LSG03BMB,42,VENUS,D7	
1	AA91-04093A	ASSY CHASSIS;SP42W5HFX/XEF,J52A	
1	AA94-08401A	ASSY PCB CRT;SP42W5HFX/XEF,J52A,DP	
1	AA94-08448A	ASSY PCB MISC-A/V FRONT;SP42W5HFS/XEF,J5	
1	AA94-08457A	ASSY PCB MISC-A/V TERMINAL;SP42W5HFS/XEF	
1	AA94-08458A	ASSY PCB MISC-SUB-AMP;SP42W5HFS/XEF,J52A	
1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP,PCL545R,P54A,AA95	
1	AA94-11168E	ASSY PCB MISC-V/M;PCL5415R3S/XAA,P54A,	
1	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-	
1	AA96-20130G	ASSY POWER CORD;,CP2/NO(4.0R),H/C 2	
1	BP91-00005C	ASSY CABINET WOOD; WOOD,EUP,42W5	
2	AA64-02724A	CABINET-WOOD;42W5,WOOD,SDE8336R	
2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,-,AA61-005	
2	AA61-00097A	HOLDER-WIRE;-,NYLON 6/6,-,-,-,NTR,-	
2	BP61-00075A	HOLDER-JERSEY,ASSY;W3,ABS V0,GRAY,63-000	
2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,-,-,-,BLK,HB,480	
2	BP61-00019A	HOLDER-PALLET;42W5,HIPS HB,BLK	
2	AA61-00533B	BRACKET-GRILLE;43,54,62J8,SECC-1 ,T0.5,-	
2	3001-001107	SPEAKER;20W,8ohm,95dB,1300Hz	
2	3001-000279	SPEAKER;30W,8OHM,91DB,20HZ	
2	AA98-00049A	ASSY-LEAD,CON;-,LEAD-CON,CORE,AA39-20505	
3	3301-001201	CORE-FERRITE;AE,21x11x32mm,1500,280G	
2	AA39-00086A	LEAD CONNECTOR-ASSY;,2.2UF,REC,REC,200MM	
2	AA60-10051A	SCREW-WOOD;-,SWRCH18A,M4,L16,PH,+,-,-,ZP	
2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	BP61-00035A	BRACKET-GRILLE;42W5,SECC-1,T1.0	
2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
2	6006-001094	SCREW-ASS'Y WOOD;WW,HH,+,M7,L32,ZPC(YEL)	
2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
1	BP96-00013A	ASSY COVER P-C/FRONT,MASK;DP,42W5,HIPS H	
2	AA64-02727C	CABINET-FRONT,MASK TOP;42W5,HIPS,HB,G430	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA64-02211E	BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
1	BP96-00014A	ASSY C/FRONT BOTTOM; DP,42W5,HIPS HB	
2	AA64-02725A	CABINET-FRONT,BOT;42W5,HIPS,HB,G4309,SVM	
2	AA64-02743A	BADGE-DECORATION;42W5,AL,NI	
2	BP73-00001A	RUBBER-SHEET;42W5,NBB RUBBER,GRAY,10*20	
2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
1	AA96-01135A	ASSY COVER P;42W5	
2	BP64-00013A	CABINET-FRONT,PANEL CONTROL;DP,42W5,AA64	
2	AA64-02740A	KNOB-POWER;42W5,ABS,HB,G3676,COT	
2	AA61-60003J	SPRING-CS;-,SUS304,-,-,-,OD6,	
2	AA64-02742A	WINDOW-RMC,LED;42W5,PC,CLR	
2	BP64-00011A	KNOB-CONTROL;DP,42W5,AA64-02739A 10.5KG	
2	AA61-01130A	GUIDE-KNOB,CONTROL;42W5,ABS HB,G3676,SVM	
2	AA94-08320A	ASSY PCB MISC-CONTROL;SP42W5HFS/XEF,J52A	
2	AA61-20129A	HOLDER-WIRE;-,NYLON-66,-,-,-,NTR,DAFC-25	
2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
2	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW	
2	BP64-00035F	INLAY-DECORATION;42W5,AL,T0.4,SESA 1POLE	
1	BP64-00008E	CABINET-BACK,BOT;DP,42W5,AA64-02729C 19.	
1	BP64-00009A	CABINET-BACK,TOP;DP,42W5,AA64-02728A 38.	
1	AA40-00094A	TUNER;TCLW3101PD16A(S),PAL/SECAM,181	
1	AA40-00095A	TUNER;TCPW3001PC16A(S),PAL/SECAM,181	

Loc. No.	Code No.	Description ; Specification	Remark
1	AA39-30007B	IF-CABLE;-,T,150mm,1365#26	
1	AA67-00204C	MIRROR-FRONT;DP,42W5,FSM,870*633*446	
1	BP61-00012A	BRACKET-MIRROR;DP,42W5,AA61-01123A,11.8K	
1	BP61-00010A	BRACKET-SCREEN,TB;DP,42W5,AA61-01121A,26	
1	BP61-00011A	BRACKET-SCREEN,RL;DP,42W5,AA61-01122A,13	
1	AA67-00193A	SCREEN-TINT;42W,958*550,T=0.73,P=052	
1	AA67-00193B	SCREEN-FRESNEL;42W,960*552,T=2.0	
1	AA67-00207A	SCREEN-FILTER;,T=82%,960*552*2,G=110,AG	
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547	
1	AA39-00285A	LEAD CONNECTOR; PJTV 42 W5	
1	BP65-00001B	TERMINAL-BOARD,ANT;,DP,42W5,SESA,AA65-00	
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,-	
1	AA61-00049B	HOLDER-BOX;-,PP,-,-,-,NTR,V0,AA61-20285A	
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET	
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149.3X69.5	
1	BP64-00029A	INLAY-SUPPORT;42W5,PS SHEET,T0.5,94V0	
1	AA65-30013A	CLAMP-WIRE;-,NYLON-6	
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,-,DATL-60	
1	AA65-30104B	CLAMP-WIRE;ALL MODEL,NYLON 66,V2,-,BLK,W	
1	AA65-30008A	CLAMP-CORD;-,PE,HB,-,BLK,-	
1	BP61-00052A	HOLDER-WIRE;PJTV,NYLON,66,NATURAL	
1	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
1	6003-001022	SCREW-TAPTITE;RH,+,B,M3,L12,ZPC(BLK),SWR	
1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK)	
1	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A	
1	6003-001339	SCREW-TAPTITE;HH,+,B,M4,L15,ZPC(BLK),SWR	
1	AA63-70002B	SHEET;,PE-FOAM,T1.0,50G	
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE	
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5	
1	AA60-00072B	SPACER-COVER,DUST;43,54,62J9,SPONGE 94HF	
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER	
1	AA69-01678A	PACKING-COVER,BOT;42W5,H-3 AB,C3,YEL,910	
1	BP69-00019D	PACKING CASE-OUT;42W4,H-3 YEL,C3,SESA	
1	AA69-01651A	CUSHION-SET;42W5,PS FOAMED,C=0.02	
1	AA59-00220A	REMOCON;,TM63,SHARK,51,L/GRAY,EAST ASI	
1	AA68-01778A	I/B PJTV (RPM 995)	
1	6801-001014	CARD REGISTRATION;XEU,ENG,MOJO100,L150,W	
1	AA39-40001B	CABLE-RCA;,1500MM	
1	4301-000115	BATTERY-ALKALINE;1.5V,750mAH,AAA,10.	
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL	
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL,-,WHT,L250	
1	AA68-00344A	LABEL-TRANSFER BOX;-,TF-53B	
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM	
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI	
1	AA68-00340A	LABEL-WARRANTY;-,-,-,WHT,75MM,20	
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-,TF-53B5D	
1	AA69-00862A	BAG PE;-,HDPE PE FOAM,T0.03,W400,H240	
1	AA69-00744L	BAG-SHEET;-,HDPE PE FOAM,T0.015,W1650,H1	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK	
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A	
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK	
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66	
1	AA69-01876A	PALLET;ALL MODEL,WOOD,600,1200,120	
1	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,	
1	AA63-10007B	BAND-PP;W18,CLEA	

Loc. No.	Code No.	Description ; Specification	Remark

Loc. No.	Code No.	Description ; Specification	Remark

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3-4 SP42W5HF1X/XEG

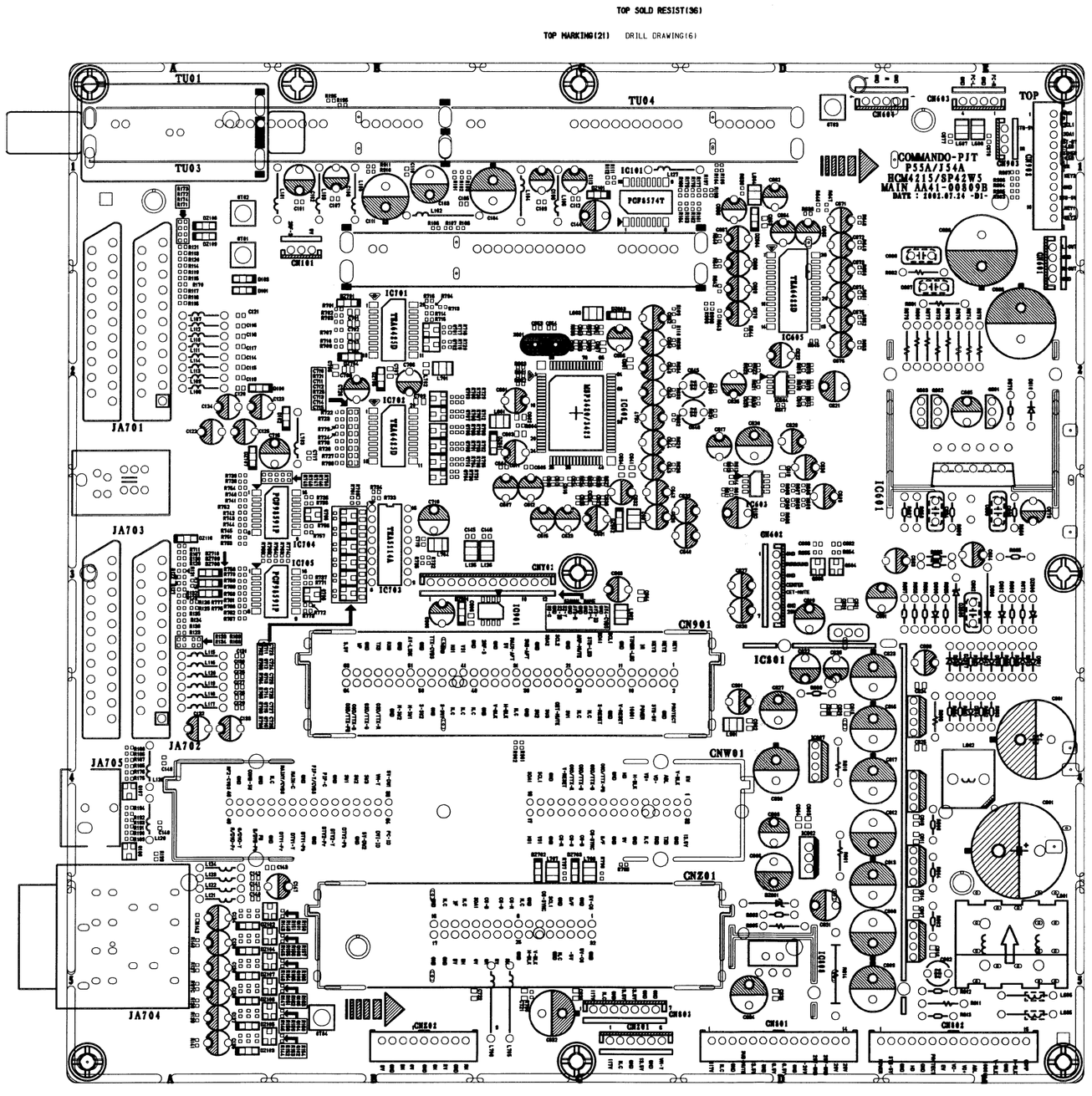
Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00453A	ASSY CPT-R;SP42W5HPX/XEU,J54A,CRT-R ASSY	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	BP61-00091A	HOLDER-CRT;PJTV,PCABS GF20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00128B	SPACER-CRT;PROJ(65),SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA33-00016A	MAGNET CONVERGENCE;,JH 92LT - 29F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00845A	CASE-COUPLER,R;DP,PROJ,AA61-00806B	
2	AA03-00200A	CRT MONO;P16LSG03RJA,-,7inch,-,-,-,FLAT	
2	AA67-00157A	LENS;,DELTA 240,RED,C-ELEMENT	
2	AA67-10008A	LENS;-,-,DELTA,77,RED,S4388,-	
2	AA67-00188A	LENS;DELTA71,RED C ELEMENT	
2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B	
1	BP91-00454A	ASSY CPT-G;SP42W5HPX/XEU,J54A,CRT-G ASSY	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00846A	CASE COUPLER G;DP,PROJ,AA61-00807B	
2	AA03-00201A	CRT MONO;P16LSG03HKA,-,7inch,-,-,-,FLAT	
2	AA67-00158A	LENS;,DELTA 240,GREEN,C-ELEMENT	
2	AA67-10071A	LENS;DELTA 77 79,-,GREEN,C ELEMENT,	
2	AA67-00189A	LENS;DELTA71,GREEN C ELEMENT	
2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B	
1	BP91-00455A	ASSY CPT-B;SP42W5HPX/XEU,J54A,CRT-B ASSY	
2	BP61-00079A	HOLDER-DY;,PJTV,T0.5,NYLON66 V2	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR	
2	BP61-00091A	HOLDER-CRT;PJTV,PCABS GF20%,BLK	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,	
2	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK	
2	AA60-00128B	SPACER-CRT;PROJ(65),SILICONE,D/GRAY	
2	AA39-00018A	LEAD CONNECTOR-ASSY;,UL1015#22,UL/CSA,1P	
2	AA33-00018A	MAGNET CONVERGENCE;,JH 92LT - 36F,-,29.1M	
2	AA27-00278A	DEFLECTION YOKE;-,PT-S0712AC,S/S,PJTCRT(	
2	AA26-30006F	FLYBACK;*WIRE*-,FWZ-50A001C,55,30KV	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH2OHCH2OH,80,20	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	

Loc. No.	Code No.	Description ; Specification	Remark
2	AA61-00847A	CASE-COUPLER,B;DP,PROJ,AA61-00808B	
2	AA03-00202A	CRT MONO;P16LSG03BMB,-,7inch,-,-,-,FLAT	
2	AA67-00156A	LENS;,DELTA 240,CLEAR,C-ELEMENT	
2	AA67-10007A	LENS;-,-,DELTA,77,CLEAR,S4388,-	
2	AA67-00190A	LENS;DELTA71,CLEAR C ELEMENT	
2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B	
1	BP91-00245V	ASSY CHASSIS;SP42W5HF1S/XEF,J54A,C2.0	
1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP,PCL545R,P54A,AA95	
1	BP94-00193A	ASSY PCB MISC-A/V FRONT;DP,SP42W5HPS/XEU	
1	BP94-00238A	ASSY PCB MISC-VM;DP,HCM4215W3S/XAA,P55A	
1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP,HCM4215W3S/XAA,	
1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP,SP43T7HFS,J54A,	
1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP,SP43T7HFS,J54A,C	
1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP, BP96-0003	
1	BP94-00257A	ASSY PCB CRT-PCB;DP,SP42W5HFS/XEF,J54A	
2	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-	
2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
1	BP64-00008E	CABINET-BACK,BOT;DP,42W5,AA64-02729C 19.	
1	BP64-00009A	CABINET-BACK,TOP;DP,42W5,AA64-02728A 38.	
1	BP96-00014A	ASSY C/FRONT BOTTOM; DP,42W5,HIPS HB	
2	AA64-02725A	CABINET-FRONT,BOT;42W5,HIPS,HB,G4309,SVM	
2	AA64-02743A	BADGE-DECORATION;42W5,AL,NI	
2	BP73-00001A	RUBBER-SHEET;42W5,NBB RUBBER,GRAY,10*20	
2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
1	BP98-00088H	ASSY C/FRONT,MASK;SP42W5HF1S/XEF,J54	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA64-02727Q	CABINET-FRONT,MASK TOP;42W5,HIPS,HB,G430	
2	AA64-02211E	BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS	
1	BP91-00005F	ASSY-CABINET,WOOD;,WOOD,42W5, DO	
2	AA60-10051A	SCREW-WOOD;-,SWRCH18A,M4,L16,PH,+,-,-,ZP	
2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,-,-,-,BLK,HB,480	
2	AA61-00097A	HOLDER-WIRE;-,NYLON 6/6,-,-,-,NTR,-	
2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	AA61-00533B	BRACKET-GRILLE;43,54,62J8,SECC-1 ,T0.5,-	
2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,-,AA61-005	
2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	AA64-02724A	CABINET-WOOD;42W5,WOOD,SDE8336R	
2	BP61-00019A	HOLDER-PALLET;42W5,HIPS HB,BLK	
2	BP61-00035A	BRACKET-GRILLE;42W5,SECC-1,T1.0	
2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,-,-,-,-	
2	AA60-10051B	SCREW-WOOD;-,SWRCH18A,M3.5,L11,RH,+,-,-,	
2	3001-000279	SPEAKER;30W,8OHM,91DB,20HZ	
2	3001-001107	SPEAKER;20W,8ohm,95dB,1300Hz	
2	AA39-00086A	LEAD CONNECTOR-ASSY;,2.2UF,REC,REC,200MM	
2	AA98-00049B	ASSY-LEAD,CON;-,LEAD-CON,CORE,AA39-20505	
2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
2	6006-001094	SCREW-ASS'Y WOOD;WW,HH,+,M7,L32,ZPC(YEL)	
2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
1	BP98-00090D	ASSY PANEL CONTROL;SP42W5HPS/XEU,P5	
2	BP64-00013A	CABINET-FRONT,PANEL CONTROL;DP,42W5,AA64	
2	AA64-02740A	KNOB-POWER;42W5,ABS,HB,G3676,COT	
2	AA61-60003J	SPRING-CS;-,SUS304,-,-,OD6,	
2	AA64-02742A	WINDOW-RMC,LED;42W5,PC,CLR	
2	BP64-00011A	KNOB-CONTROL;DP,42W5,AA64-02739A 10.5KG	
2	AA61-01130A	GUIDE-KNOB,CONTROL;42W5,ABS HB,G3676,SVM	

Loc. No.	Code No.	Description ; Specification	Remark
2	BP94-00194A	ASSY PCB MISC-CONTROL;DP,SP42W5HPS/XEU,J	
2	AA61-20129A	HOLDER-WIRE;-,NYLON-66,-,-,-,NTR,DAFC-25	
2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H	
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	6003-001019	SCREW-TAPTITE;RH,+,B,M4,L12,ZPC(BLK),SWR	
2	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW	
2	BP64-00035J	INLAY-DECORATION;42W5,AL,T0.4,PAL(COMAND	
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,-	
1	AA67-00204C	MIRROR-FRONT;DP,42W5,FSM,870*633*446	
1	BP61-00012A	BRACKET-MIRROR;DP,42W5,AA61-01123A,11.8K	
1	BP61-00010A	BRACKET-SCREEN,TB;DP,42W5,AA61-01121A,26	
1	BP61-00011A	BRACKET-SCREEN,RL;DP,42W5,AA61-01122A,13	
1	AA60-00072B	SPACER-COVER,DUST;43,54,62,J9,SPONGE 94HF	
1	AA67-00193A	SCREEN-TINT;42W,958*550,T=0.73,P=052	
1	AA67-00193B	SCREEN-FRESNEL;42W,960*552,T=2.0	
1	AA67-00207A	SCREEN-FILTER;,T=82%,960*552*2,G=110,AG	
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET	
1	BP61-00052A	HOLDER-WIRE;PJTV,NYLON,66,NATURAL	
1	AA61-00049B	HOLDER-BOX;-,PP,-,-,-,NTR,V0,AA61-20285A	
1	BP64-00029A	INLAY-SUPPORT;42W5,PS SHEET,T0.5,94V0	
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149.3X69.5	
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER	
1	AA63-10002A	BAND-TIE;-,NYLON66 V2,-,-,L100,NTR,-	
1	AA65-30013A	CLAMP-WIRE;-,NYLON-6	
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,-,DATL-60	
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66	
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,	
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1	
1	AA65-30008A	CLAMP-CORD;-,PE,HB,-,BLK,-	
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A	
1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK)	
1	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW	
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A	
1	6003-001339	SCREW-TAPTITE;HH,+,B,M4,L15,ZPC(BLK),SWR	
1	AA60-10011A	SCREW-TAPTITE;-,SWRCH18A,M4,L12,HH,+,PC,	
1	AA96-20130A	ASSY-POWER,CORD;-,CP2/NO(4.0R),H/C150,KJ	
1	AA39-30007A	IF-CABLE;-,T,100mm,1365#26	
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP,UL2547#26,U	
1	BP39-00048A	LEAD CONNECTOR;P55A/SVP-47W3HRT,UL1617#2	
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547	
1	AA39-00006A	CABLE-RCA;-,RCA,3000MM,0.12/10,RED/WHT/Y	
1	AA63-70002B	SHEET;,PE-FOAM,T1.0,50G	
1	AA69-01678A	PACKING-COVER,BOT;42W5,H-3 AB,C3,YEL,910	
1	BP69-00019D	PACKING CASE-OUT;42W4,H-3 YEL,C3,SESA	
1	AA69-01651A	CUSHION-SET;42W5,PS FOAMED,C=0.02	
1	BP59-00008A	REMOCON;,TM65A,COMMOANDO,J54A,49,L/GRAY,	
1	BP68-00088A	MANUAL USERS;W3,ITA,W/P100(G),1,B5,J52A,	
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE	
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK	
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK	
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5	
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,	
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL	
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM	
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI	
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL,-,WHT,L250	
1	AA68-00344A	LABEL-TRANSFER BOX;-,TF-53B	
1	AA68-00340A	LABEL-WARRANTY;-,-,-,WHT,75MM,20	
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-,TF-53B5D	
1	AA69-00862A	BAG PE;-,HDPE PE FOAM,T0.03,W400,H240	
1	AA69-00744L	BAG-SHEET;-,HDPE PE FOAM,T0.015,W1650,H1	
1	6801-001015	CARD REGISTRATION;XEG,GERMAN,MOJO100	
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A	
1	AA69-01876A	PALLET;ALL MODEL,WOOD,600,1200,120	
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-	
1	AA63-10007B	BAND-PP;W18,CLEA	

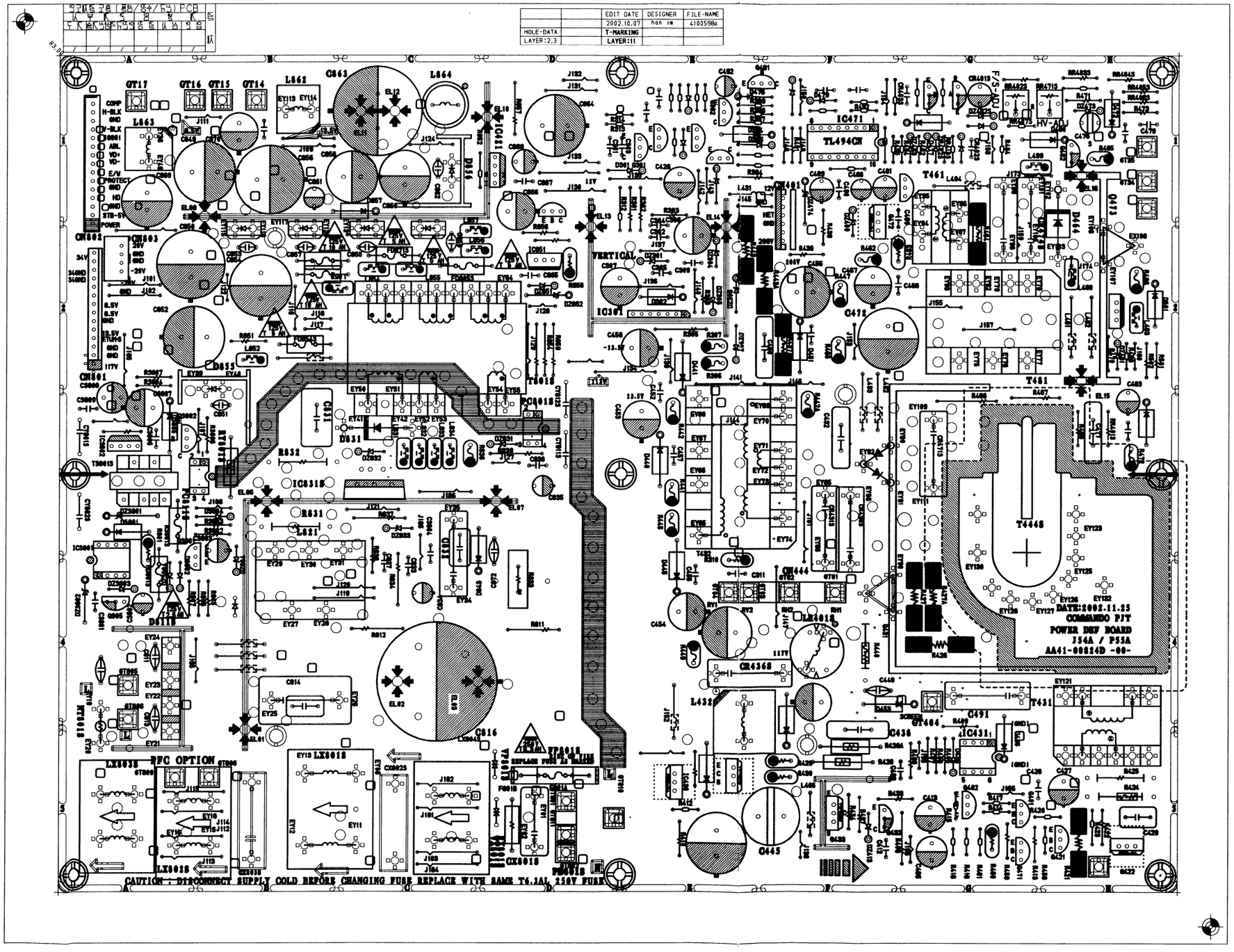
4. PCB Diagrams

4-1 MAIN PCB



Loc.	Spec	Block
IC703	TEA5114	C2
IC802	7905	A4
IC807	78R12	A3
IC601	7265	O2
IC808	3050	B4
IC101	8574	B1
IC701	TEA6425D	C1
IC702	TEA6425D	C2
IC605	TEA6422D	A1
IC704	PCF8591T	D2
IC705	PCF8591T	D3
IC603	TL062CDT	B2
IC604	TL062CDT	B2
IC602	MSP3452G-B3	C2

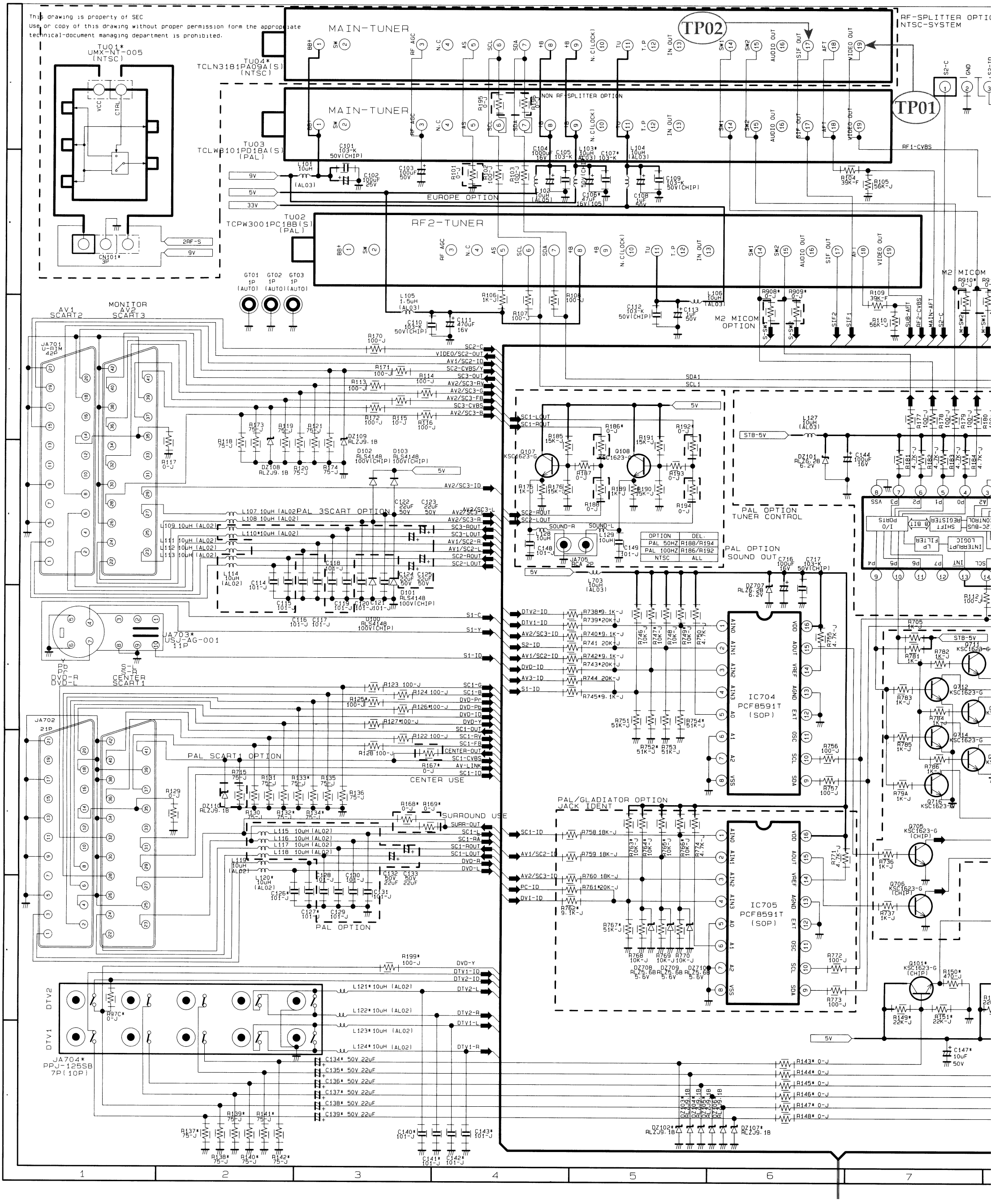
4-2 SUB PCB



Loc.	Spec	Block
IC431	4558	G4
IC430	KA317	D4
IC471	TL494CN	F1
ICS802	KA78R05	A2
IC851	SE110N	C1
ICS801	VIPER12A	A3
PC801S	PHOTO-COUPLER	C2
PC811S	PHOTO-COUPLER	A3
IC421	K78R12	B1
IC301	LA7845	D1
ICR01S	KA431LZ	F0
IC831S	STR-X6459	B3
Q423	KS5039F	E4
Q433	KSD73Y	E5
Q431	FJU6920YDTU	F3

5. Schematic Diagrams

5-1 MAIN 1



RF-SPLITTER OPTION
NTSC-SYSTEM

TO SIDE-A/V

CNY01 12P

M2 MICOM OPTION

PAL 1SCART OPTION

IC101 PCF8574T (SOP)

IC701 TEA6425D (SOIC)

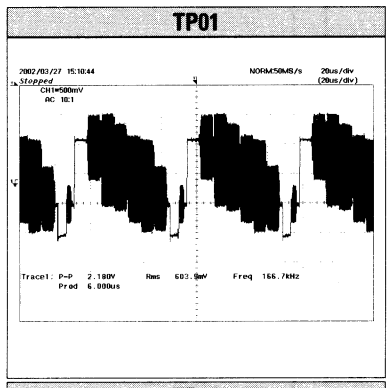
IC702 TEA6425D (SOIC)

IC703 TEA5114A (DIP)

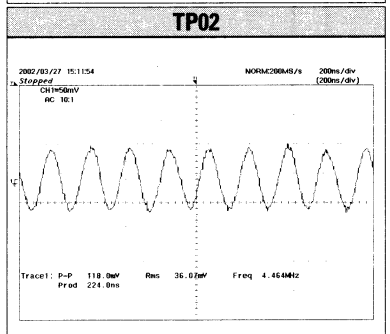
PAL 3SCART OPTION VIDEO SWITCHING

NON 5114A USE

TP01

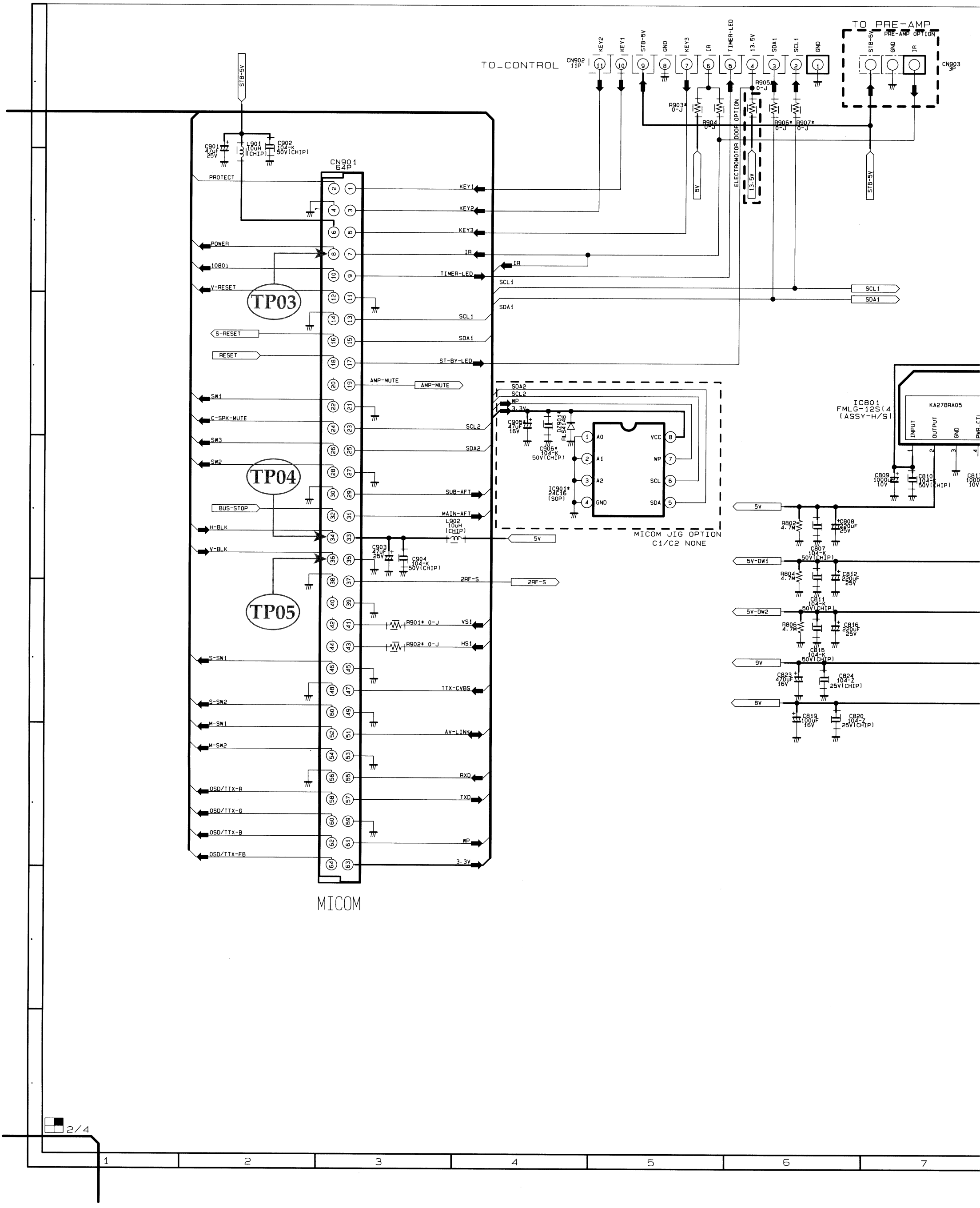


TP02



1/4

5-2 MAIN 2


TO_CONTROL
CN902 11P
KEY2
KEY1
STB-5V
GND
KEY3
IR
TIMER-LED
13.5V
SDA1
SCL1
GND
TO PRE-AMP
PRE-AMP OPTION
STB-5V
GND
IR
CN903 3P
R905* 0-J
R903* 0-J
R904 0-J
R906* 0-J
R907* 0-J
ELECTROMOTOR DOOR OPTION
5V
13.5V
STB-5V
STB-5V
C901 47uF 25V
L901 10uH (CHIP)
C902 104-K 50V(CHIP)
CN901 64P
PROTECT
POWER
1080i
V-RESET
TP03
S-RESET
RESET
SW1
C-SPK-MUTE
SW3
SW2
TP04
BUS-STOP
H-BLK
V-BLK
TP05
S-SW1
S-SW2
M-SW1
M-SW2
OSD/TTX-R
OSD/TTX-G
OSD/TTX-B
OSD/TTX-FB
KEY1
KEY2
KEY3
IR
TIMER-LED
SCL1
SDA1
SCL1
SDA1
IR
SCL1
SDA1
ST-BY-LED
AMP-MUTE
AMP-MUTE
SCL2
SDA2
SUB-AFT
MAIN-AFT
L902 10uH (CHIP)
5V
C903 47uF 25V
C904 104-K 50V(CHIP)
2RF-S
2RF-S
R901* 0-J
VS1
R902* 0-J
HS1
TTX-CVBS
AV-LINK
RXD
TXD
WP
3.3V
SDA2
SCL2
WP
3.3V
C905* 47uF 16V
C906* 104-K 50V(CHIP)
DZ901* RLS4148
IC901* 24C16 (SOP)
A0
A1
A2
GND
VCC
WP
SCL
SDA
MICOM JIG OPTION
C1/C2 NONE
IC801 FMLG-12S(4 (ASSY-H/S)
KA278RA05
INPUT
OUTPUT
GND
C809 1000u 10V
C810 104-K 50V(CHIP)
5V
R802 4.7M
C808 220uF 25V
C807 104-K 50V(CHIP)
5V-DW1
R804 4.7M
C812 220uF 25V
C811 104-K 50V(CHIP)
5V-DW2
R806 4.7M
C816 220uF 25V
C815 104-K 50V(CHIP)
9V
C823 470uF 16V
C824 104-Z 25V(CHIP)
8V
C819 100uF 16V
C820 104-Z 25V(CHIP)
MICOM
2/4
1
2
3
4
5
6
7

PRE-AMP
PRE-AMP OPTION
GND
IR
CN903
3P

29V
-5V
8.5V
5V-CG
12V
13.5V
33V

L802
100uH
(CK)
C681
2200uF
50V
L801
20uH
3A
C801
3300uF
50V
IC802
7905
(TO-220)
C803
100uF
16V
C804
104-K
50V(CHIP)
C805
104-K
50V(CHIP)
RB01
150
1/2W
C806
100uF
50V

KA278RA05
KA278RA05
KA278RA05
KA78R09
KA7808
INPUT
OUTPUT
GND
PWR.CTL
C809
1000uF
10V
C810
104-K
50V(CHIP)
C813
1000uF
10V
C814
104-K
50V(CHIP)
C817
1000uF
10V
C818
104-K
50V(CHIP)
C826
47uF
25V
C825
104-Z
25V(CHIP)
1/2W
10K
RB08
C822
100uF
16V
C821
104-Z
25V(CHIP)

IC808
3050(H/S ASSY)
(TO-220)
(ON/OFF)
SANCE
GND VC VO VO VIN
RB03
4.7M
?
RB05
470
1/2W
C834
1000uF
10V
C835
104-K
50V(CHIP)
C832
1000uF
16V
C833
104-K
50V(CHIP)

IC807
78R12
(TO-220)
C829
104-Z
25V(CHIP)
C827
220uF
25V
RB09
4.7M
RB10
10K
1/2W
C830
470uF
25V
C828
104-Z
25V(CHIP)
RB14
22K
3W(RS)
C831
47uF
50V
DZ801
TZP33A
33V

CN801
14P
14 29V
13 29V
12 29V-GND
11 29V-GND
10 -20V
9 GND
8 8.5V
7 8.5V
6 GND
5 13.5V
4 SUB-MUTE
3 GND
2 N.C
1 117V
TO SUB

RB11
6.8K
RB12
2K
C802
10uF
50V(NP)
RB13
220K
SUB-MUTE

15 H-BLK
14 GND
13 V-BLK
12 1080i
11 ABL
10 VD+
9 VD-
8 EW
7 PROTECT
6 GND
5 HD
4 GND
3 STB-5V
2 POWER
1
TO SUB

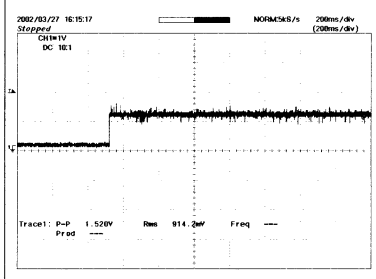
H-BLK
V-BLK
1080i
ABL
VD+
VD-
EW
PROTECT
HD
STB-5V
POWER

CN802
15P

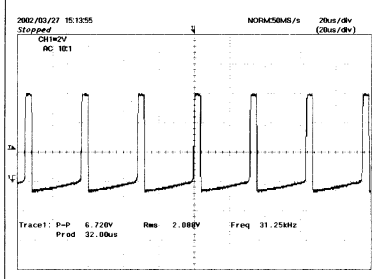
CN201
6P
1 117V
2 N.C
3 GND
4 13.5V
5 GND
6 VM-Y
TO VM

VM-Y

TP03



TP04



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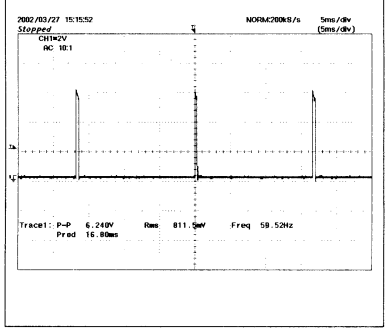
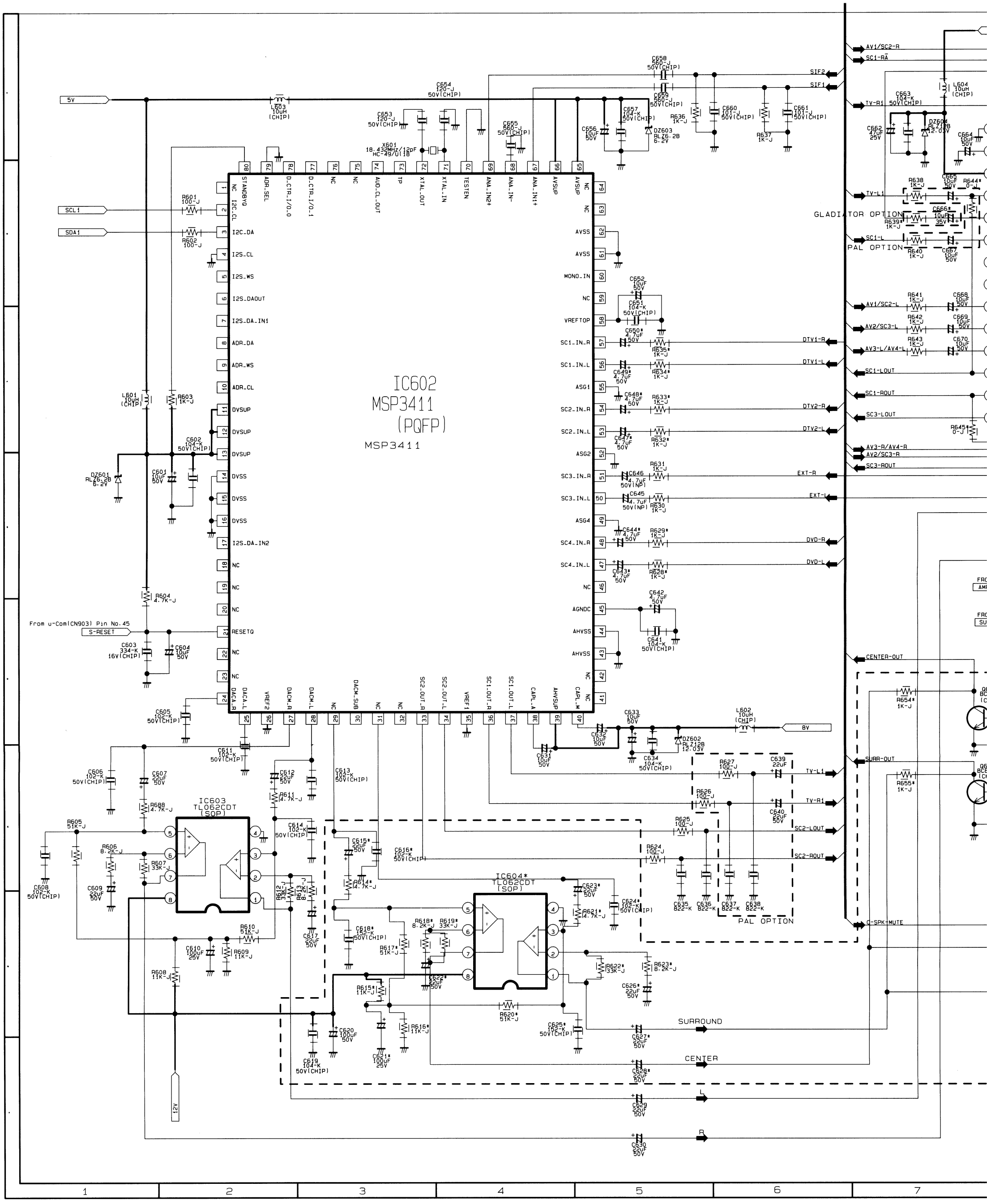


7 8 9 10 11 12

5-3 MAIN 3


IC602
MSP3411
(PQFP)
MSP3411
IC603
TL062CDT
(SOP)
IC604*
TL062CDT
(SOP)
5V
8V
12V
SCL1
SDA1
From u-Com(CN903) Pin No.45
S-RESET
SIF2
SIF1
AV1/SC2-R
SC1-R
TV-R1
TV-L1
SC1-L
AV1/SC2-L
AV2/SC3-L
AV3-L/AV4-L
SC1-LOUT
SC1-ROUT
SC3-LOUT
AV3-R/AV4-R
AV2/SC3-R
SC3-ROUT
DTV1-R
DTV1-L
DTV2-R
DTV2-L
EXT-R
EXT-L
DVD-R
DVD-L
CENTER-OUT
SVAR-OUT
SC2-LOUT
SC2-ROUT
C-SPK-MUTE
SURROUND
CENTER
L
R
GLADIATOR OPTION
PAL OPTION
STANDBYQ
ADR_SEL
D_CTR_I/O_0
D_CTR_I/O_1
NC
NC
AUD_CL_OUT
TP
XTAL_OUT
XTAL_IN
TESTEN
ANA_IN2+
ANA_IN-
ANA_IN1+
AVSUP
AVSUP
I2C_CL
I2C_DA
I2S_CL
I2S_WS
I2S_DAOUT
I2S_DA_IN1
ADR_DA
ADR_WS
ADR_CL
DVSUP
DVSUP
DVSUP
DVSS
DVSS
DVSS
I2S_DA_IN2
NC
NC
NC
RESETQ
NC
DACA_R
DACA_L
VREF2
DACM_R
DACM_L
NC
DACM_SUB
NC
NC
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
NC
NC
AVSS
AVSS
MONO_IN
NC
VREFTOP
SC1_IN_R
SC1_IN_L
ASG1
SC2_IN_R
SC2_IN_L
ASG2
SC3_IN_R
SC3_IN_L
ASG4
SC4_IN_R
SC4_IN_L
NC
AGNDC
AHVSS
AHVSS
NC
L601 10uH (CHIP)
L602 10uH (CHIP)
L603 10uH (CHIP)
L604 10uH (CHIP)
X601 18.432MHz/12pF HC-49/U(18
C601 10uF 50V
C602 104-K 50V(CHIP)
C603 334-K 16V(CHIP)
C604 10uF 50V
C605 102-K 50V(CHIP)
C606 102-K 50V(CHIP)
C607 22uF 50V
C608 102-K 50V(CHIP)
C609 22uF 50V
C610 100uF 25V
C611 102-K 50V(CHIP)
C612 22uF 50V
C613 102-K 50V(CHIP)
C614 102-K 50V(CHIP)
C615* 22uF 50V
C616* 102-K 50V(CHIP)
C617 22uF 50V
C618* 152-K 50V(CHIP)
C619 104-K 50V(CHIP)
C620 100uF 50V
C621* 100uF 25V
C622* 22uF 50V
C623* 22uF 50V
C624* 102-K 50V(CHIP)
C625* 152-K 50V(CHIP)
C626* 22uF 50V
C627* 22uF 50V
C628* 22uF 50V
C629 22uF 50V
C630 22uF 50V
C631 10uF 50V
C632 10uF 50V
C633 10uF 50V
C634 104-K 50V(CHIP)
C635 822-K
C636 822-K
C637 822-K
C638 822-K
C639 22uF
C640 22uF 50V
C641 104-K 50V(CHIP)
C642 4.7uF 50V
C643* 4.7uF 50V
C644* 4.7uF 50V
C645 4.7uF 50V(NP)
C646 4.7uF 50V(NP)
C647* 4.7uF 50V
C648* 4.7uF 50V
C649* 4.7uF 50V
C650* 4.7uF 50V
C651 104-K 50V(CHIP)
C652 10uF 50V
C653 120-J 50V(CHIP)
C654 120-J 50V(CHIP)
C655 560-J 50V(CHIP)
C656 10uF 50V
C657 104-K 50V(CHIP)
C658 560-J 50V(CHIP)
C659 560-J 50V(CHIP)
C660 101-J 50V(CHIP)
C661 101-J 50V(CHIP)
C662 47uF 25V
C663 104-K 50V(CHIP)
C664 10uF 50V
C665 10uF 50V
C666* 10uF 35V
C667 10uF 50V
C668 10uF 50V
C669 10uF 50V
C670 10uF 50V
R601 100-J
R602 100-J
R603 1K-J
R604 4.7K-J
R605 51K-J
R606 8.2K-J
R607 33K-J
R608 11K-J
R609 11K-J
R610 51K-J
R611 4.7K-J
R612 33K-J
R613 8.2K-J
R614* 4.7K-J
R615* 11K-J
R616* 11K-J
R617* 51K-J
R618* 8.2K-J
R619* 33K-J
R620* 51K-J
R621* 4.7K-J
R622* 33K-J
R623* 8.2K-J
R624 100-J
R625 100-J
R626 100-J
R627 100-J
R628* 1K-J
R629* 1K-J
R630 1K-J
R631 1K-J
R632* 1K-J
R633* 1K-J
R634* 1K-J
R635* 1K-J
R636 1K-J
R637 1K-J
R638 1K-J
R639* 1K-J
R640 1K-J
R641 1K-J
R642 1K-J
R643 1K-J
R644* 0-J
R645* 0-J
R654* 1K-J
R655* 1K-J
DZ601 RLZ6.2B 6.2V
DZ602 RLZ12B 12.03V
DZ603 RLZ6.2B 6.2V
DZ604 RLZ12B 12.03V

3/4

9V

L604 10uH (CHIP)

C663 104-K 50V(CHIP)

DZ604 RLZ12B 12.03V

IC605 TEA6422D (SOIC)

GND, CAPACITANCE, VS, L1, L2, L3, NC, NC, L4, L5, L6, LOUT1, ROUT1, LOUT2, ROUT2, LOUT3, ROUT3, R6, R5, R4, NC, NC, R3, R2, R1, ADDR, SCL, SDA

C664 10uF 50V
C665 10uF 50V
C666* 10uF 35V
C667 10uF 50V
C668 10uF 50V
C669 10uF 50V
C670 10uF 50V
C671 10uF 50V
C672* 10uF 50V
C673 10uF 50V
C674 10uF 50V
C675 10uF 50V
C676 10uF 50V

R638 1K-J
R639* 1K-J
R640 1K-J
R641 1K-J
R642 1K-J
R643 1K-J
R644* 0-J
R645* 0-J
R646 100-J
R647 100-J
R648 1K-J
R649* 1K-J
R650 1K-J
R651 1K-J
R652 1K-J
R653 1K-J

GLADIATOR OPTION
PAL OPTION

SDA1
SCL1

GLADIATOR OPTION
TO PC-SOUND

L607* 10uH (CHIP)
L608* 10uH (CHIP)
C677* 101-J 50V(CHIP)
C678* 101-J 50V(CHIP)
GND, PC-L, GND, PC-R
CN603* 4P

IC601 TDA7265 (ASSY-H/S)

-VS, OUT (R) +VS, OUT MUTE/ (L) ST-BY -VS, IN(L), GND, IN (R)

R675 1K-G 1/2W(RM)
R676 1K-G 1/2W(RM)
C685 33uF 50V
R673 1.8K-F 1/2W(RM)
R674 33K-F 1/2W(RM)
R677 33K-F 1/2W(RM)
R678 1.8K-F 1/2W(RM)

TO SPEAKER

C686 1000uF 50V
R679 1.8K-F 1/2W(RM)
R681 4.7 1/2W
C687 104 63V(MP)
C688 1000uF 50V
R682 4.7 1/2W
C689 104 63V(MP)
R680 1.8K-F 1/2W(RM)
GND, R-OUT, GND, L-OUT
CN601 4P

TP06
TP07

29V
C682 104 63V(MP)
DZ605 MA2560 56V
C679 1uF 50V
C680 1uF 50V
C684 1uF 50V
C683* 22uF 50V
D606 TVR10G
R669 10K
R665 100K
R668 10K
R658 5.6K
R660 4.7K
C695 102 50V(P)
C694 102 50V(P)
R687 5.6K
R659 4.7K
R666 470
R667 10K
Q601 KSC815-Y (TO-92)
DZ606 MTZJ15C 15.09V
R672 5.6K
R680 1.8K-F 1/2W(RM)
R670 22K
R671* 4.7K

PLAY / MUTE

Q602 KSC815-Y (TO-92)

FROM MICOM AMP-MUTE
R651 4.7K
D604 1N4148
R662 33K

FROM SUB SUB-MUTE
D601 1N4148
D605 1N4148
R664 470
R663 3K 100V
C690 22uF 50V
D602* 1N4148
D603* 1N4148

100V

Q603 KSC815-Y (TO-92)
D607 1N4148
D608 1N4148
DZ607 MTZJ4.7C 4.93V
D609 1N4148
R683 10K
R684 15K
R686 12K
C691 47uF 50V
R685 82K
13.5V

L605 CORE-F/B
L606 CORE-F/B

Q604* BC848C (CHIP)
R654* 1K-J
R656* 1K
C692* 101-J

Q605* BC848C (CHIP)
R655* 1K-J
R657* 1K
C693* 101-J

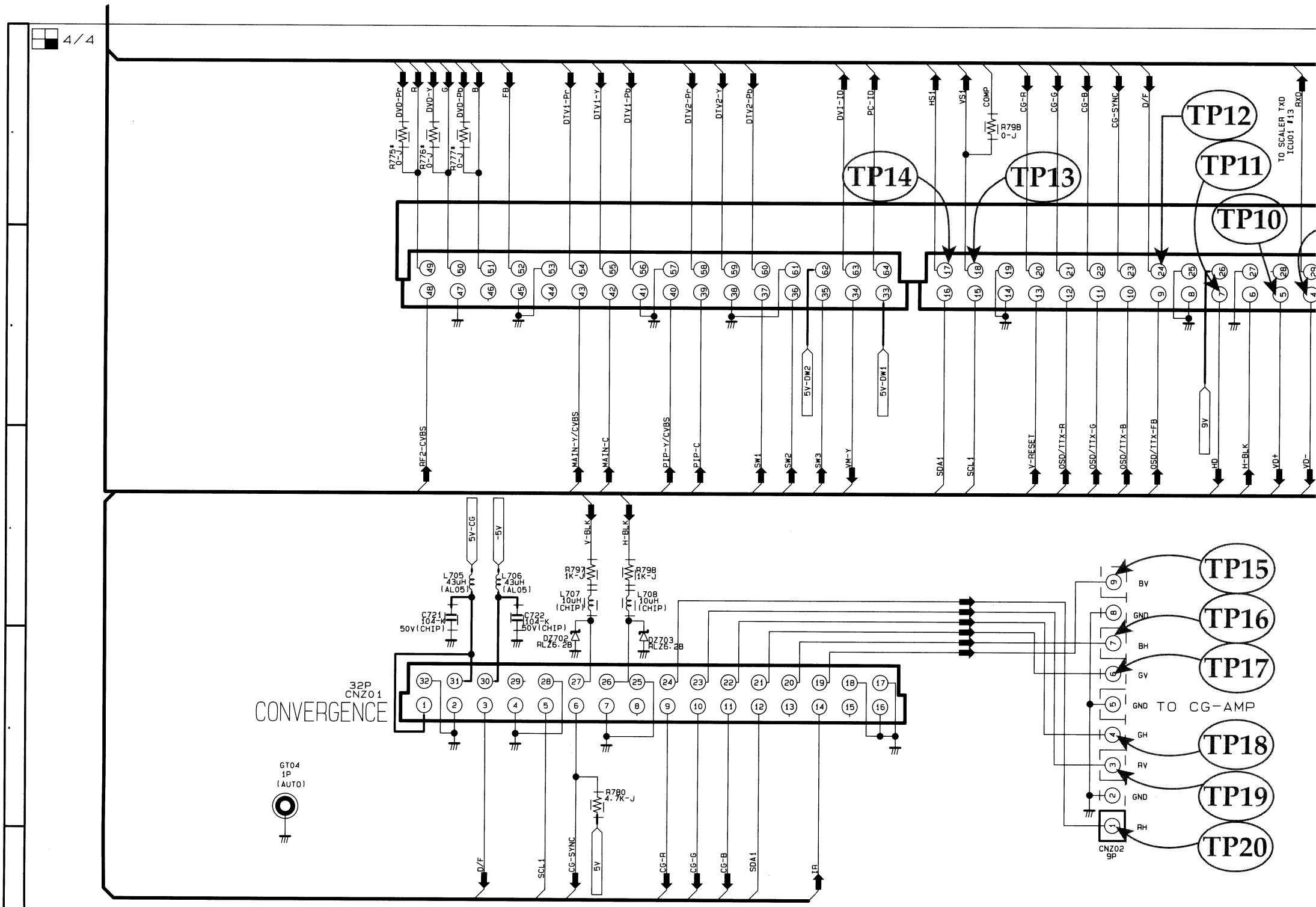
29V
D610* 1N4148 100V
MUTE

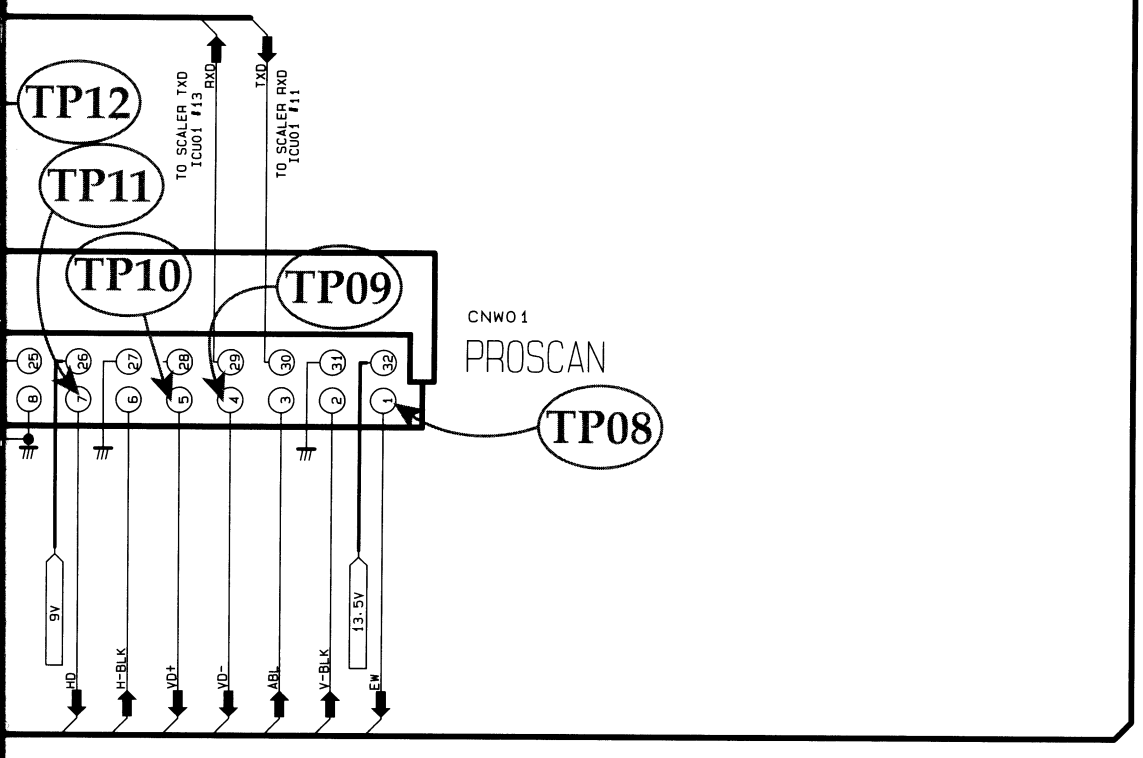
TO SUB-AMP
29V, GND, CENTERSPKMUTE, CENTER, GND, SURROUND, GND
CN602* 7P

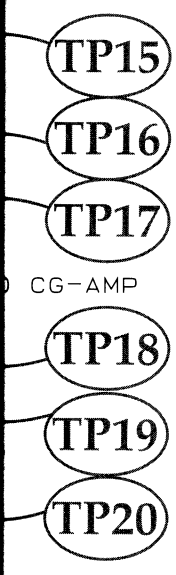
MSP3452 USE(SURROUND OPTION)

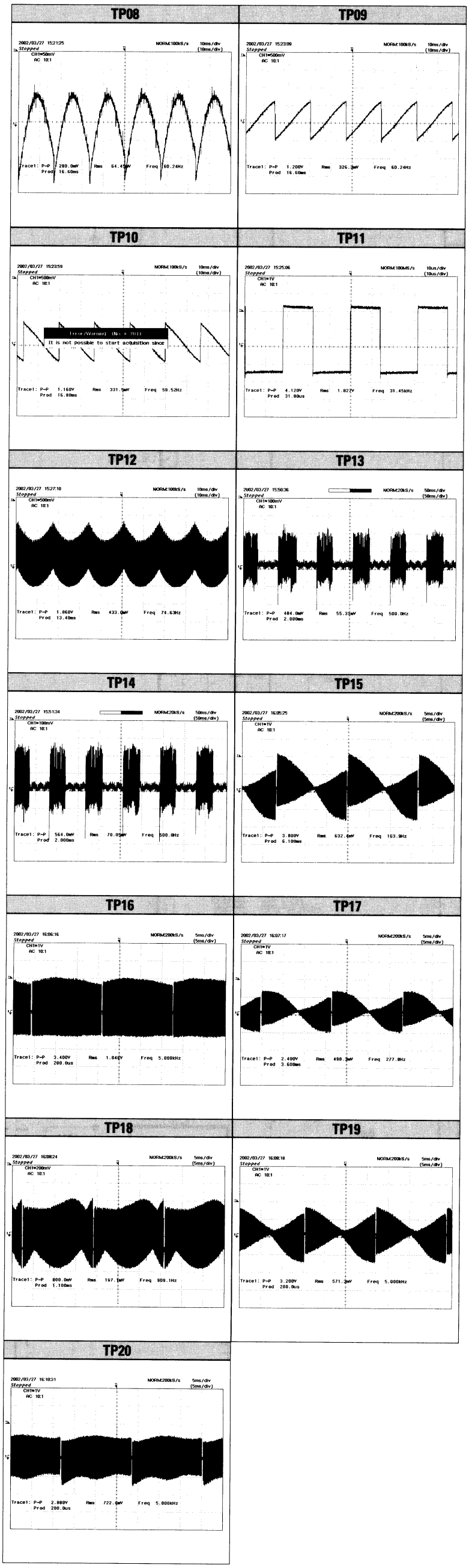
7	8	9	10	11	12

5-4 MAIN 4


4/4
DVO-Pr
DVO-Y
DVO-Pb
R
G
B
FB
R775* 0-J
R776* 0-J
R777* 0-J
DTV1-Pr
DTV1-Y
DTV1-Pb
DTV2-Pr
DTV2-Y
DTV2-Pb
DVI-ID
PC-ID
HS1
VS1
COMP
R798 0-J
CG-R
CG-G
CG-B
CG-SYNC
D/F
TP12
TP11
TP10
TP14
TP13
TO SCALER TXD ICU01 #13
RXD
RF2-CVBS
MAIN-Y/CVBS
MAIN-C
PIP-Y/CVBS
PIP-C
SW1
SW2
SW3
VM-Y
5V-DW2
5V-DW1
SDA1
SCL1
V-RESET
OSD/TTX-R
OSD/TTX-G
OSD/TTX-B
OSD/TTX-FB
9V
HD
H-BLK
VD+
VD-
5V-CG
-5V
V-BLK
H-BLK
L705 43uH (AL05)
L706 43uH (AL05)
C721 104-K 50V(CHIP)
C722 104-K 50V(CHIP)
R797 1K-J
R798 1K-J
L707 10uH (CHIP)
L708 10uH (CHIP)
DZ702 RLZ6.2B
DZ703 RLZ6.2B
32P CNZ01
CONVERGENCE
GT04 1P (AUTO)
R780 4.7K-J
D/F
SCL1
CG-SYNC
5V
CG-R
CG-G
CG-B
SDA1
IR
BV
GND
BH
GV
GND
GH
RV
GND
RH
TO CG-AMP
CNZ02 9P
TP15
TP16
TP17
TP18
TP19
TP20


TP12
TP11
TP10
TP09
TP08
TO SCALER TXD
ICU01 #13
RXD
TXD
TO SCALER RXD
ICU01 #11
CNW01
PROSCAN
25
26
27
28
29
30
31
32
8
7
6
5
4
3
2
1
9V
13.5V
HD
H-BLK
VD+
VD-
ABL
V-BLK
EW


TP15
TP16
TP17
CG-AMP
TP18
TP19
TP20


TP08
TP09
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20

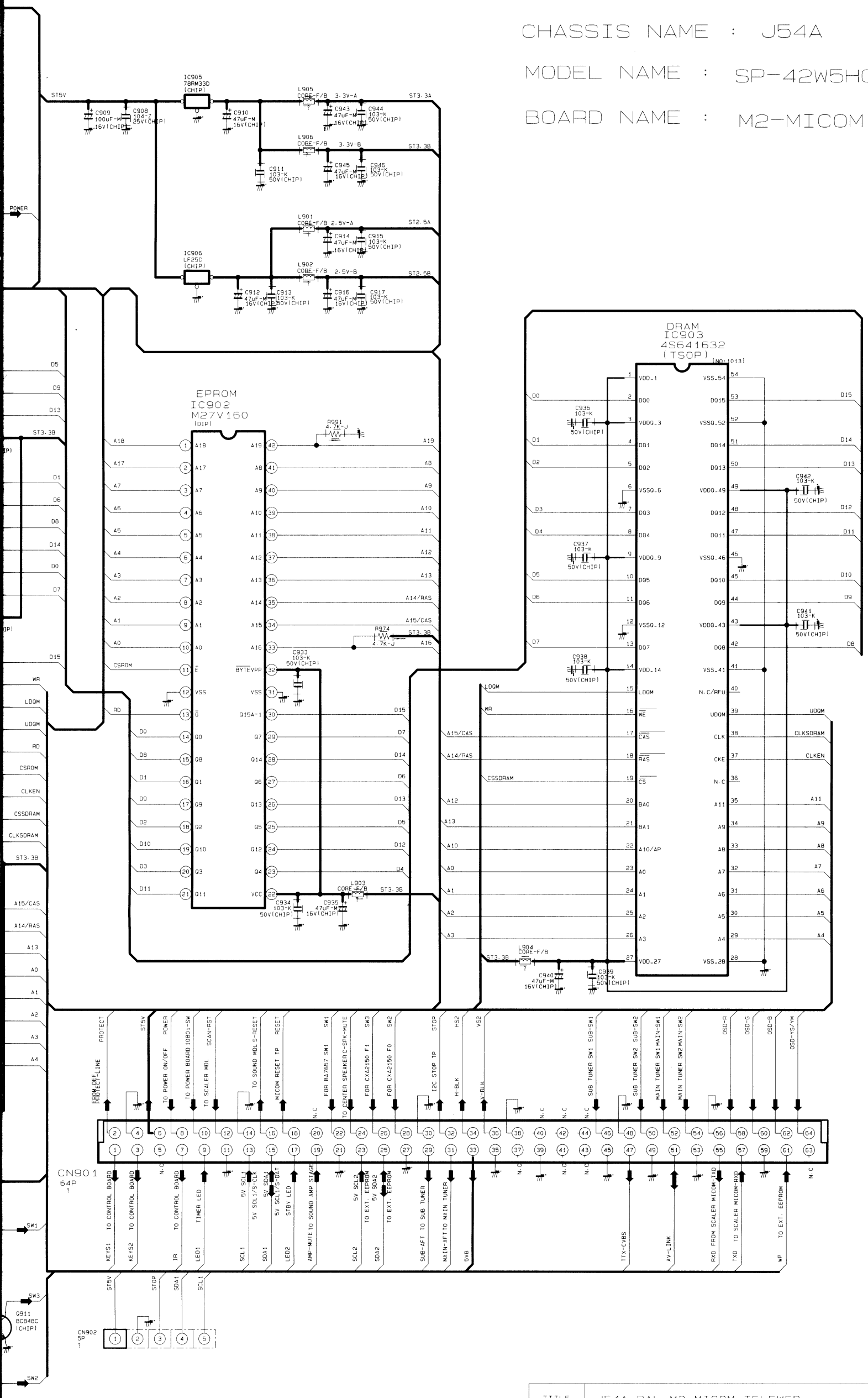
IC901
SDA6001-B11
(MQFP)

SCHEMATIC DIAGRAM

CHASSIS NAME : J54A

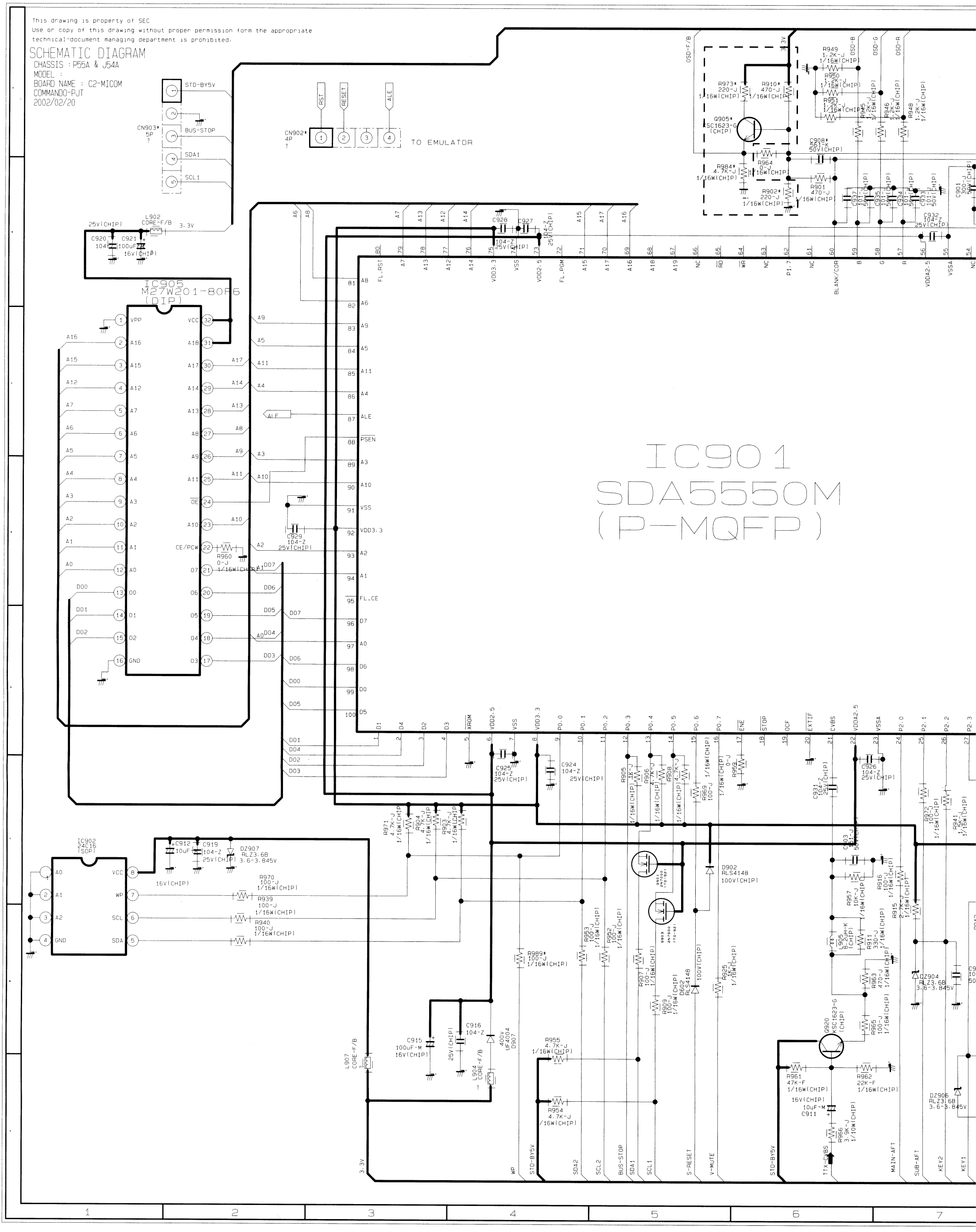
MODEL NAME : SP-42W5HC

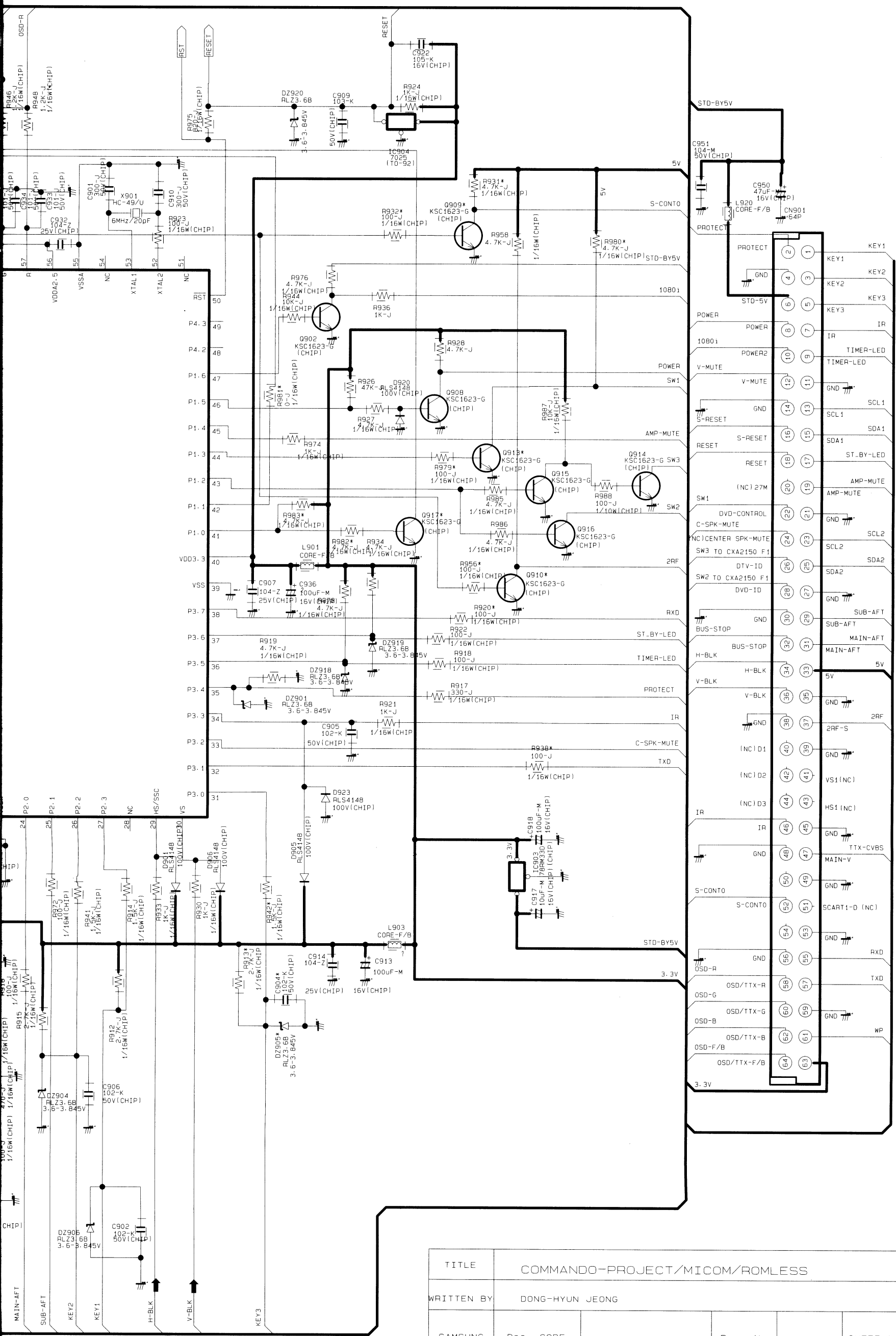
BOARD NAME : M2-MICOM



TITLE	J54A PAL M2-MICOM TELEWEB					
DATE	2002.06.28 CIRCUIT DESIGNED BY D.H.JEONG					
SAMSUNG	Doc. CODE	DS020520-0009	Rev. No		SHEET NO	1 / 1

5-6 T_CMDEAC_XXX MICOM





TITLE	COMMANDO-PROJECT/MICOM/ROMLESS					
WRITTEN BY	DONG-HYUN JEONG					
SAMSUNG	Doc. CODE		Rev. No		SHEET NO	1/1

7	8	9	10	11	12

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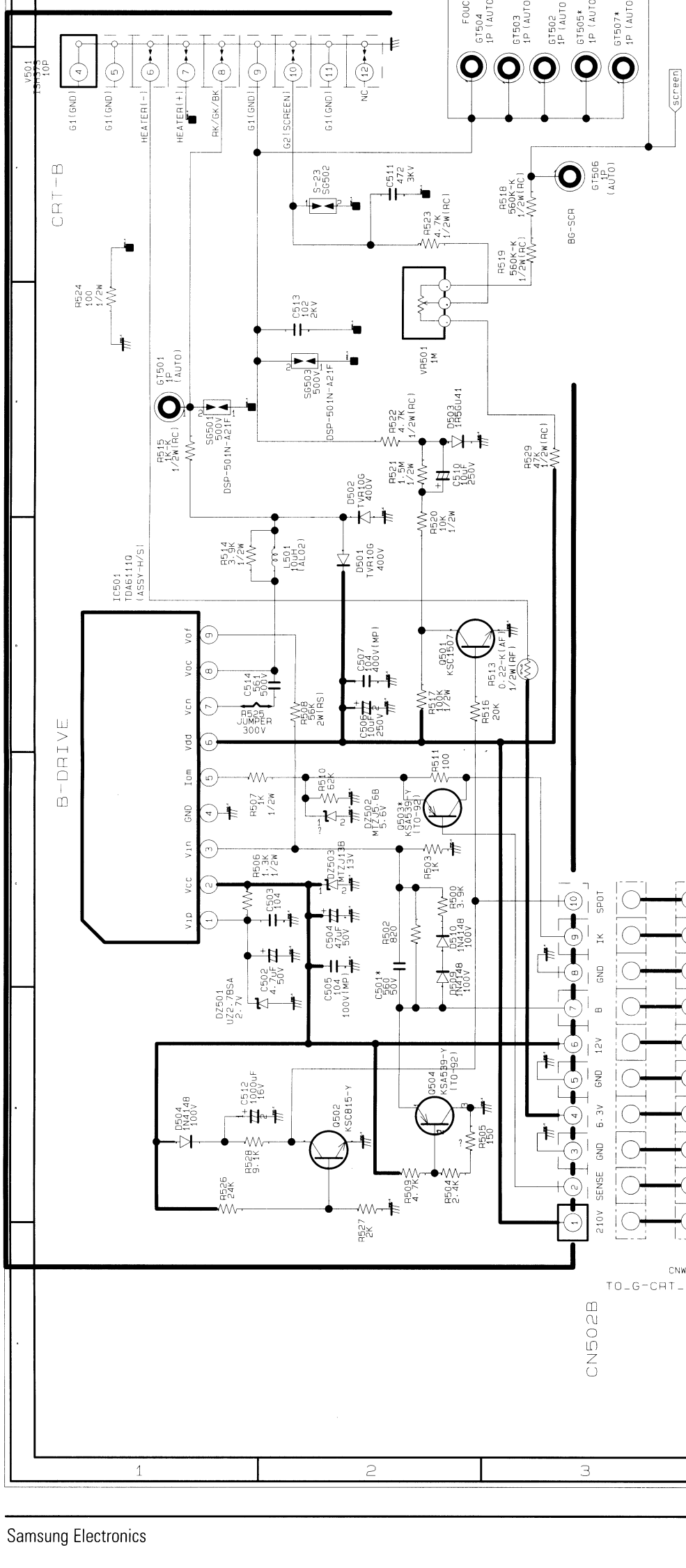
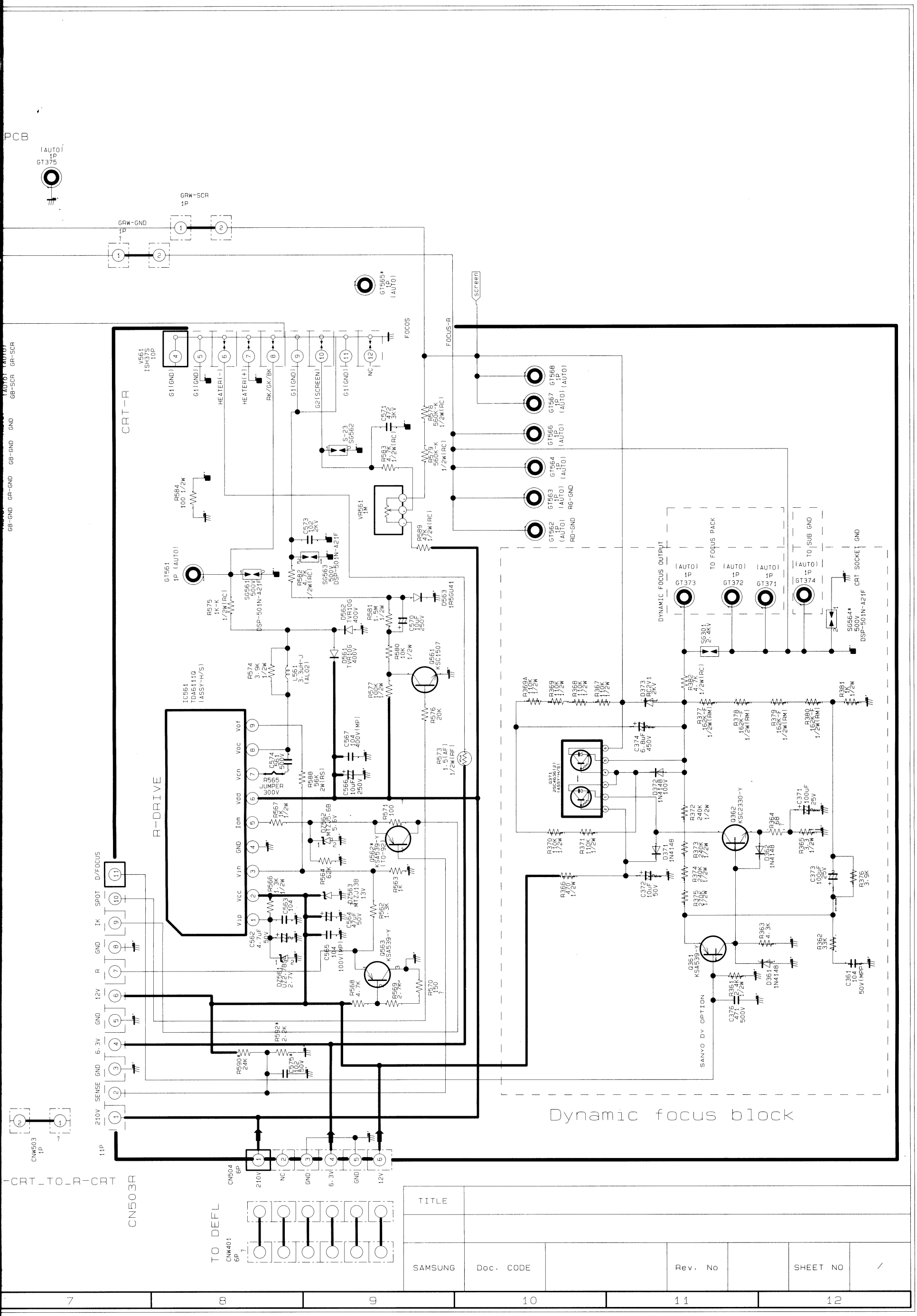
CHASSIS : P55A/J54B
MODEL : HCM4215W
PCB-CRT
2002/02/18




PCB
(AUTO) 1P GT375
GRW-SCR 1P
GRW-GND 1P
GT565* 1P (AUTO)
screen
FOCUS-R
FOCOS
CRT-R
V561 ISH375 10P
G1(GND)
HEATER(-)
HEATER(+)
RK/GK/BK
G2(SCREEN)
NC
S-23 TO S6562
C571 472 3KV
R583 4.7K 1/2W(RC)
R576 560K-K 1/2W(RC)
R579 560K-K 1/2W(RC)
GT568 1P (AUTO)
GT567 1P (AUTO)
GT566 1P (AUTO)
GT564 1P (AUTO)
GT563 1P (AUTO)
RG-GND
GT562 1P (AUTO)
RD-GND
R584 100 1/2W
VR561 1M
C573 102 2KV
S6563 500V DSP-501N-A21F
R592 4.7K 1/2W(RC)
GT561 1P (AUTO)
S6561 500V DSP-501N-A21F
R575 1K-K 1/2W(RC)
R589 1/2W(RC)
D562 TVR10G 400V
R581 1.5M 1/2W
C570 10UF 250V
D563 1R5GU41
D561 TVR10G 400V
L561 3.3UH-J (AL02)
R574 3.9K 1/2W
R580 10K 1/2W
Q561 KSC1507
R577 100K 1/2W
R576 20K
IC561 TDA6111Q (ASSY-H/S)
C567 104 400V(MP)
C566 10UF 250V
C574 561 500V
R565 JUMPER 300V
R588 56K 2W(RS)
R573 1.5(AF) 1/2W(RF)
R-DRIVE
Vcc Vip Vin GND Iom Vcn Vdd Voc Vof
R567 1K 1/2W
DZ562 MTZJ5.6B 5.6V
R571 100
Q562* KSA539-Y (TO-92)
R566 1.3K 1/2W
R564 62K
R563 1K
R562 1.3K
C562 4.7UF 50V
C563 104
C564 47UF 50V
DZ563 MTZJ13B 13V
C565 104 100V(MP)
DZ561 UZ2.7B 2.7V
Q563 KSA539-Y
R568 4.7K
R569 2.7K
R570 150
R590 24K
R592* 2.2K
C575* 102 50V
CN503 11P
IK SPOT D/FOCUS
Vip Vcc Vin GND Iom Vcn Vdd Voc Vof
12V GND 6.3V GND SENSE 210V
CN504 6P
210V NC GND 6.3V GND 12V
CN503R -CRT_TO_R-CRT
TO DEFL
CNW401 6P
DYNAMIC FOCUS OUTPUT
TO FOCUS PACK
TO SUB GND
(AUTO) 1P GT373
(AUTO) 1P GT372
(AUTO) 1P GT371
(AUTO) 1P GT374
CRT SOCKET GND
SG301 2.4KV
S6564* 500V DSP-501N-A21F
R369A 110K 1/2W
R369 110K 1/2W
R368 110K 1/2W
R367 110K 1/2W
D373 RC2V1 2KV
R382 4.7K 1/2W(RC)
R377 162K-F 1/2W(RM)
R378 162K-F 1/2W(RM)
R379 162K-F 1/2W(RM)
R380 162K-F 1/2W(RM)
R381 1K 1/2W
C374 6.8UF 450V
Q371 2SC4636(P) (ASSY-H/S)
D372 1N4148 100V
R372 240K 1/2W
Q362 KSC2330-Y
C371 100UF 25V
R364 3.3
R370 110K 1/2W
R371 110K 1/2W
D371 1N4148
R373 240K 1/2W
R374 240K 1/2W
R375 270K 1/2W
C372 10UF 50V
R365 3.3 1/2W
C373 100UF 25V
R376 3.9K
R366 470 1/2W
R363 4.3K
R362 3.3K
Q361 KSA539-Y
D361 1N4148
R361 2.4K 1/2W
C376 471 500V
C361 104 50V(MPP)
SANYO DY OPTION
Dynamic focus block
TITLE
SAMSUNG
Doc. CODE
Rev. No
SHEET NO
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5-8 SUB 1

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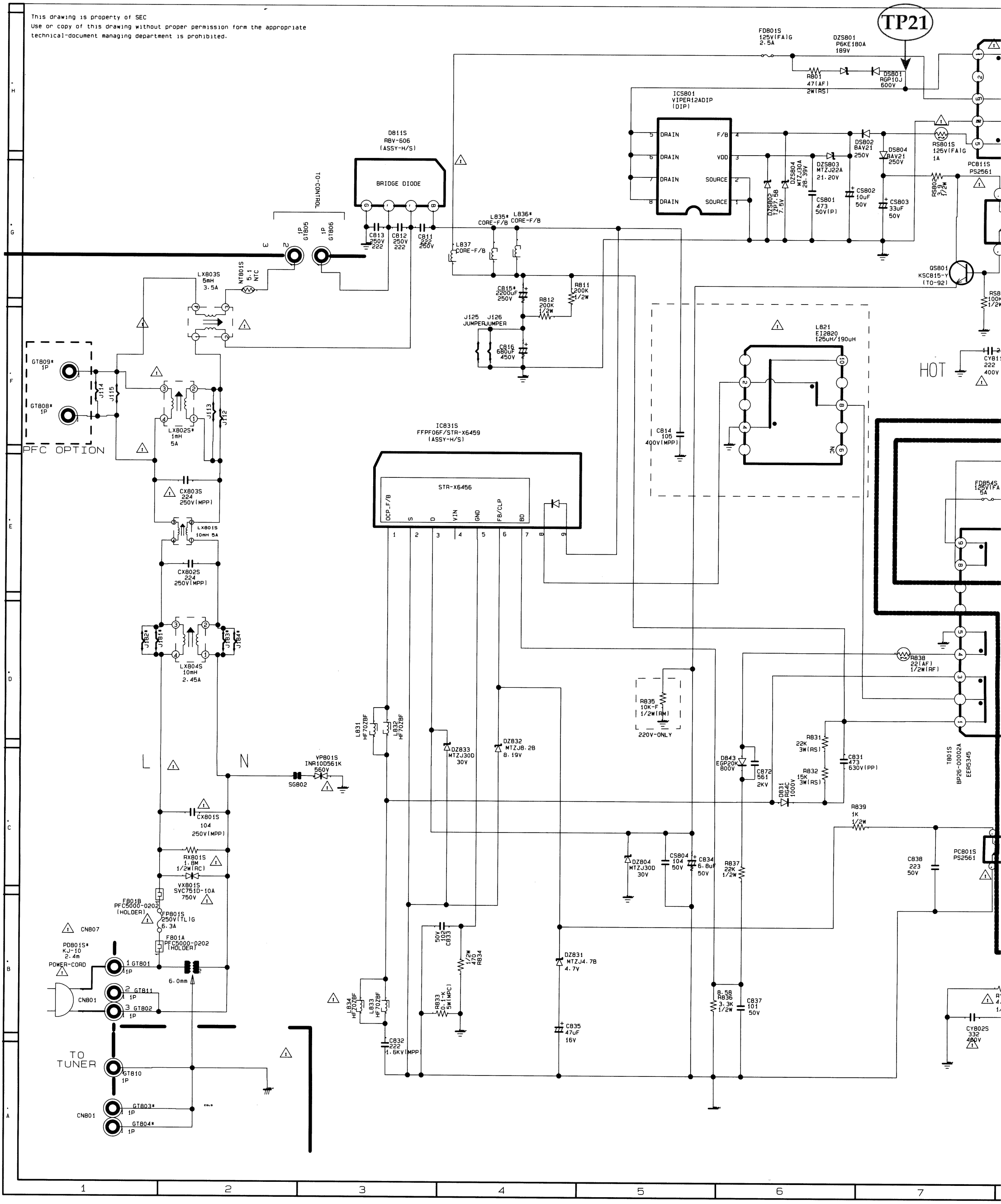
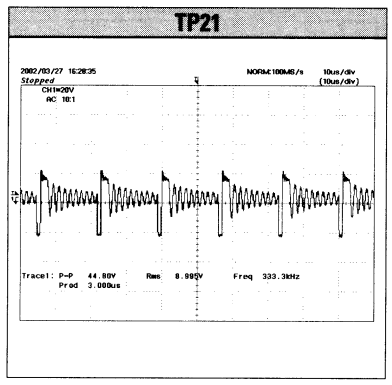
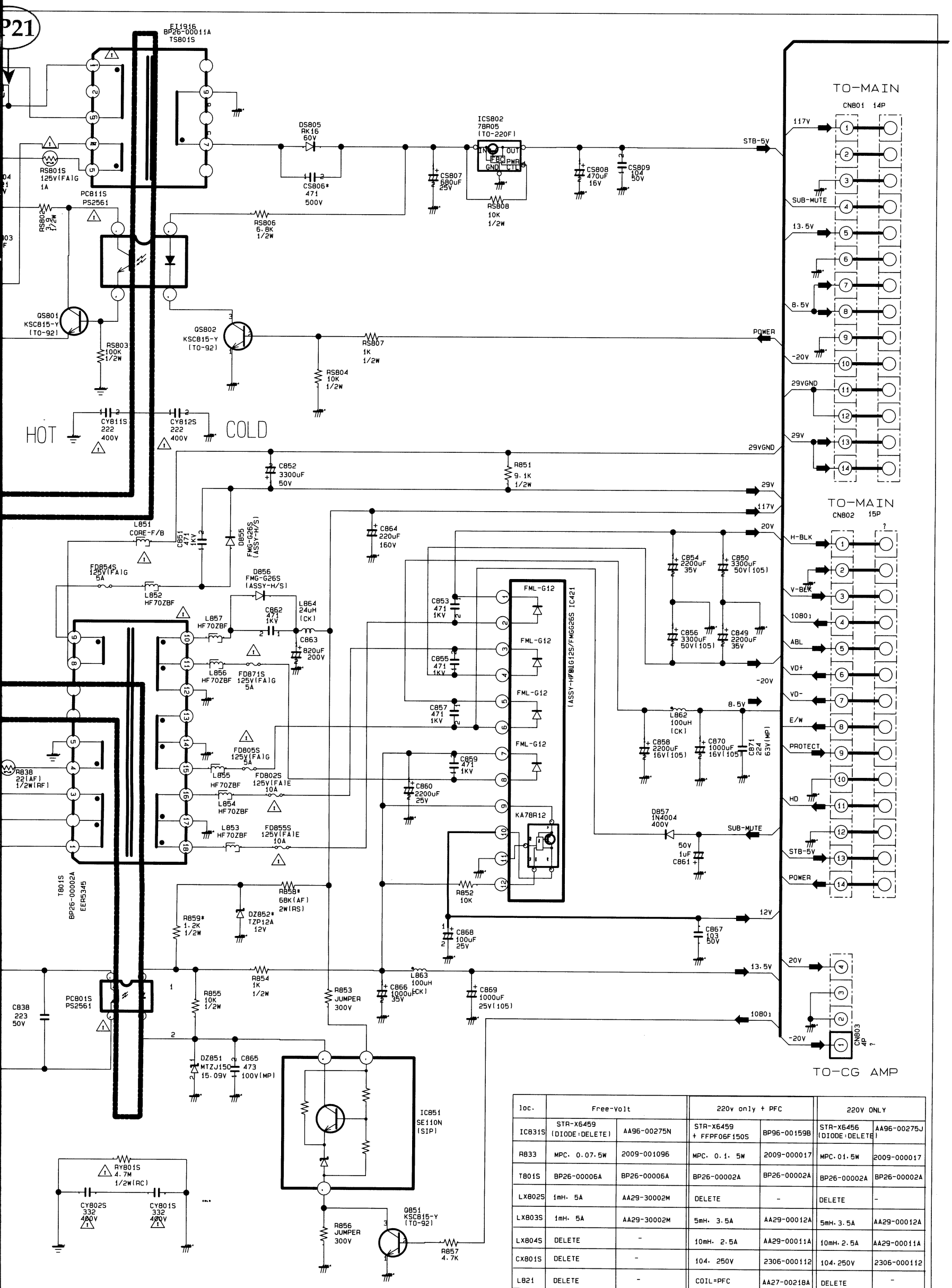
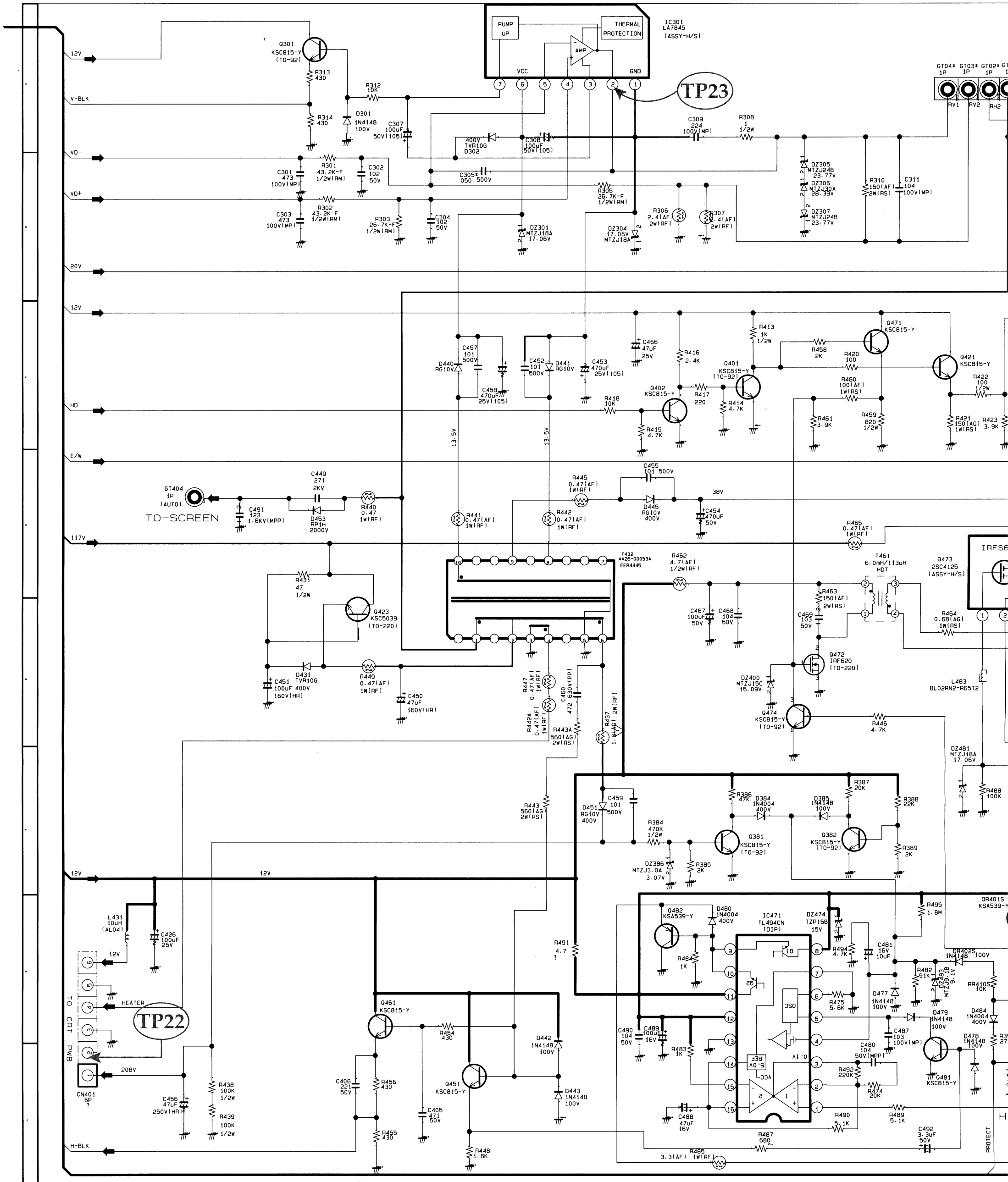
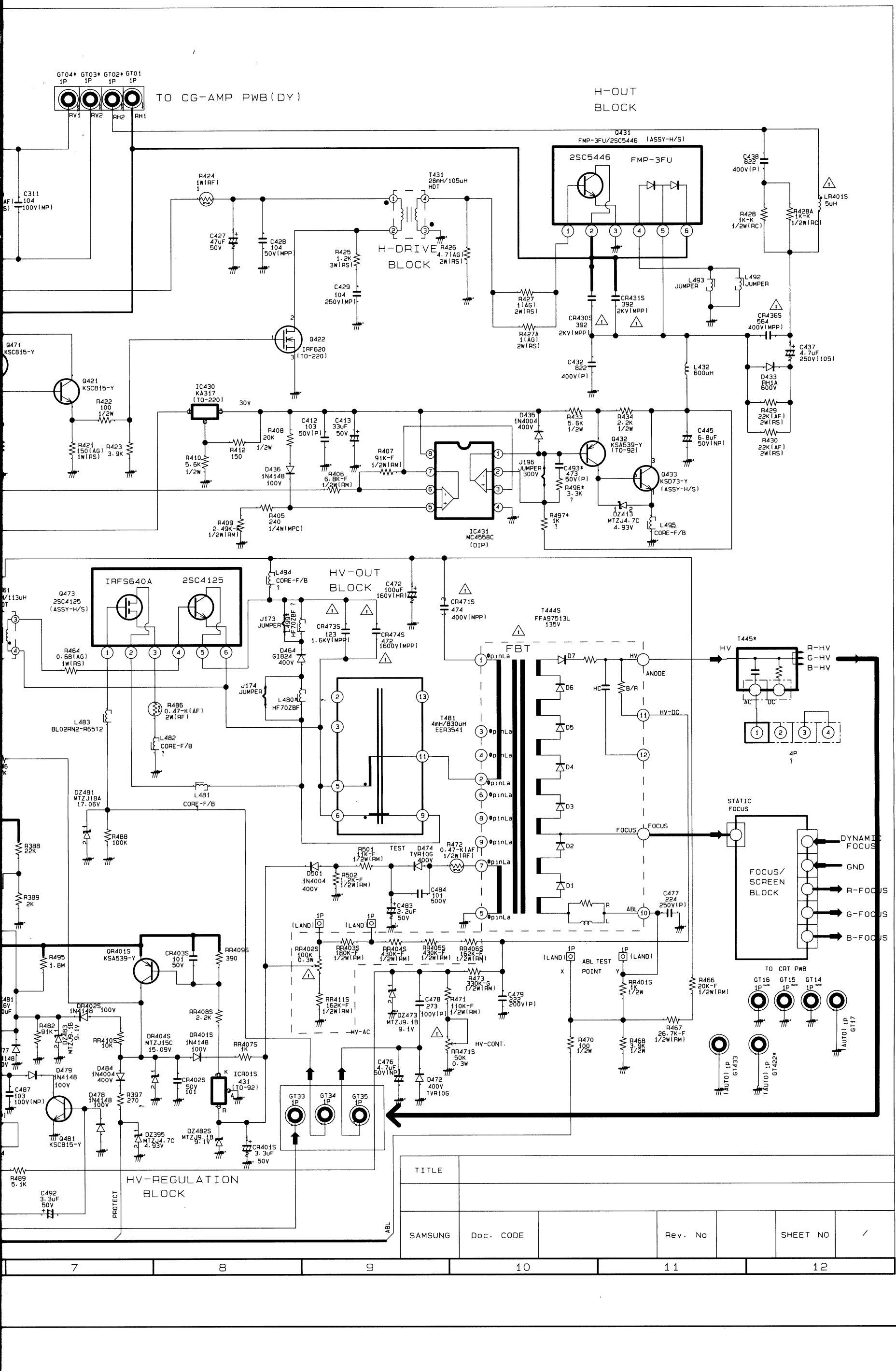




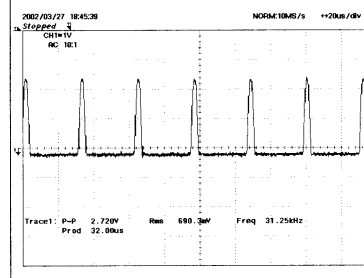


loc.	Free-Volt		220v only + PFC		220V ONLY	
IC831S	STR-X6459 (DIODE:DELETE)	AA96-00275N	STR-X6459 + FFPF06F150S	BP96-00159B	STR-X6456 (DIODE:DELETE)	AA96-00275J
R833	MPC. 0.07.5W	2009-001096	MPC. 0.1. 5W	2009-000017	MPC. 01.5W	2009-000017
T801S	BP26-00006A	BP26-00006A	BP26-00002A	BP26-00002A	BP26-00002A	BP26-00002A
LX802S	1mH. 5A	AA29-30002M	DELETE	-	DELETE	-
LX803S	1mH. 5A	AA29-30002M	5mH. 3.5A	AA29-00012A	5mH. 3.5A	AA29-00012A
LX804S	DELETE	-	10mH. 2.5A	AA29-00011A	10mH. 2.5A	AA29-00011A
CX801S	DELETE	-	104. 250V	2306-000112	104. 250V	2306-000112
L821	DELETE	-	COIL=PFC	AA27-00218A	DELETE	-
C814	DELETE	-	C-MPP. 105. 400V	2301-001193	DELETE	-
L835	FERRITE-BEAD	3301-000287	DELETE	-	FERRITE-BEAD	3301-000287
L836	FERRITE-BEAD	3301-000287	DELETE	-	FERRITE-BEAD	3301-000287

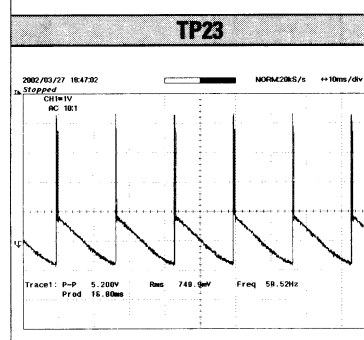

12V
V-BLK
VD-
VD+
20V
HD
E/W
117V
H-BLK
Q301 KSC815-Y (TO-92)
R313 430
R314 430
R312 10K
D301 1N4148 100V
C307 100uF 50V(105)
PUMP UP
THERMAL PROTECTION
AMP
VCC
GND
IC301 LA7845 (ASSY-H/S)
TP23
C309 224 100V(MP)
R308 1 1/2W
400V TVR10G D302
C308 100uF 50V(105)
C305* 050 500V
R305 26.7K-F 1/2W(RM)
C301 473 100V(MP)
R301 43.2K-F 1/2W(RM)
C302 102 50V
C303 473 100V(MP)
R302 43.2K-F 1/2W(RM)
R303 26.7K-F 1/2W(RM)
C304 102 50V
DZ301 MTZJ18A 17.06V
DZ304 17.06V MTZJ18A
R306 2.4(AF) 2W(RF)
R307 2.4(AF) 2W(RF)
DZ305 MTZJ24B 23.77V
DZ306 MTZJ30A 28.39V
DZ307 MTZJ24B 23.77V
R310 150(AF) 2W(RS)
C311 104 100V(MP)
GT04* 1P
GT03* 1P
GT02* 1P
RV1
RV2
RH2
C457 101 500V
C458 470uF 25V(105)
D440 RG10V
C452 101 500V
D441 RG10V
C453 470uF 25V(105)
C466 47uF 25V
R416 2.4K
R418 10K
Q402 KSC815-Y
R417 220
R415 4.7K
Q401 KSC815-Y (TO-92)
R414 4.7K
R413 1K 1/2W
R458 2K
Q471 KSC815-Y
R420 100
R460 100(AF) 1W(RS)
R461 3.9K
R459 820 1/2W
Q421 KSC815-Y
R422 100 1/2W
R421 150(AG) 1W(RS)
R423 3.9K
13.5V
-13.5V
GT404 1P (AUTO)
TO-SCREEN
C449 271 2KV
C491 123 1.6KV(MPP)
D453 RP1H 2000V
R440 0.47 1W(RF)
R441 0.47(AF) 1W(RF)
R442 0.47(AF) 1W(RF)
R445 0.47(AF) 1W(RF)
C455 101 500V
D445 RG10V 400V
38V
C454 470uF 50V
R465 0.47(AF) 1W(RF)
T432 AA26-00053A EER4445
R462 4.7(AF) 1/2W(RF)
T461 6.0mH/113uH HDT
Q473 2SC4125 (ASSY-H/S)
IRFS6
R463 150(AF) 2W(RS)
C467 100uF 50V
C468 104 50V
C469 103 50V
R464 0.68(AG) 1W(RS)
Q472 IRF620 (TO-220)
L483 BL02RN2-R65T2
R431 47 1/2W
Q423 KSC5039 (TO-220)
D431 TVR10G
C451 100uF 400V 160V(HR)
R449 0.47(AF) 1W(RF)
C450 47uF 160V(HR)
R447 0.47(AF) 1W(RF)
R442A 0.47(AF) 1W(RF)
C460 472 630V(PP)
R443A 560(AG) 2W(RS)
R437 1.8(AG) 2W(RF)
DZ400 MTZJ15C 15.09V
Q474 KSC815-Y (TO-92)
R446 4.7K
DZ481 MTZJ18A 17.06V
R488 100K
R443 560(AG) 2W(RS)
C459 101 500V
D451 RG10V 400V
R384 470K 1/2W
R386 47K
D384 1N4004 400V
D385 1N4148 100V
R387 20K
R388 22K
Q381 KSC815-Y (TO-92)
Q382 KSC815-Y (TO-92)
R389 2K
DZ386 MTZJ3.0A 3.07V
R385 2K
L431 10uH (AL04)
C426 100uF 25V
TO CRT PWB
HEATER
TP22
208V
CN401 6P
C456 47uF 250V(HR)
R438 100K 1/2W
R439 100K 1/2W
Q461 KSC815-Y
R454 430
D442 1N4148 100V
C406 221 50V
R456 430
C405 471 50V
Q451 KSC815-Y
D443 1N4148 100V
R455 430
R448 1.8K
R491 4.7 ?
Q482 KSA539-Y
D480 1N4004 400V
IC471 TL494CN (DIP)
DZ474 TZP15B 15V
R495 1.8M
QR401S KSA539-Y
R484 1K
R494 4.7K
C481 16V 10uF
QR402S 1N4148 100V
R482 91K
DZ483 MTZJ9.1B 9.1V
RR410S 10K
R475 5.6K
D477 1N4148 100V
D479 1N4148 100V
D484 1N4004 400V
C490 104 50V
C489 100uF 16V
R483 1K
C487 103 100V(MP)
C480 104 50V(MPP)
R492 220K
R474 20K
Q481 KSC815-Y
D478 1N4148 100V
C488 47uF 16V
R490 5.1K
R489 5.1K
C492 3.3uF 50V
R487 680
R485 3.3(AF) 1W(RF)
PROTECT
1
2
3
4
5
6
7


GT04* 1P
GT03* 1P
GT02* 1P
GT01 1P
TO CG-AMP PWB(DY)
RV1
RV2
RH2
RH1
H-OUT BLOCK
Q431 FMP-3FU/2SC5446 (ASSY-H/S)
2SC5446
FMP-3FU
C438 822 400V(P)
LR401S 5uH
R428 1K-K 1/2W(RC)
R428A 1K-K 1/2W(RC)
T431 28mH/105uH HDT
R424 1W(RF) 1
C427 47uF 50V
C428 104 50V(MPP
R425 1.2K 3W(RS)
C429 104 250V(MP)
H-DRIVE BLOCK
R426 4.7(AG) 2W(RS)
R427 1(AG) 2W(RS)
R427A 1(AG) 2W(RS)
C311 104 100V(MP)
L493 JUMPER
L492 JUMPER
CR431S 392 2KV(MPP)
CR430S 392 2KV(MPP)
CR436S 564 400V(MPP)
C437 4.7uF 250V(105)
C432 822 400V(P)
L432 600uH
D433 RH1A 600V
R429 22K(AF) 2W(RS)
R430 22K(AF) 2W(RS)
Q471 KSC815-Y
Q422 IRF620 (TO-220)
Q421 KSC815-Y
R422 100 1/2W
R421 150(AG) 1W(RS)
R423 3.9K
IC430 KA317 (TO-220)
30V
R408 20K 1/2W
R412 150
R410 5.6K 1/2W
C412 103 50V(P)
C413 33uF 50V
D436 1N4148 100V
R406 6.8K-F 1/2W(RM)
R407 91K-F 1/2W(RM)
R409 2.49K-F 1/2W(RM)
R405 240 1/4W(MPC)
IC431 MC4558C (DIP)
D435 1N4004 400V
R433 5.6K 1/2W
R434 2.2K 1/2W
Q432 KSA539-Y (TO-92)
J196 JUMPER 300V
C493* 473 50V(P)
R496* 3.3K ?
R497* 1K ?
Q433 KSD73-Y (ASSY-H/S)
DZ413 MTZJ4.7C 4.93V
L495 CORE-F/B
C445 6.8uF 50V(NP)
HV-OUT BLOCK
IRFS640A
2SC4125
Q473 2SC4125 (ASSY-H/S)
L494 CORE-F/B
C472 100uF 160V(HR)
CR471S 474 400V(MPP)
T444S FFA97513L 135V
J173 JUMPER
L499* HF70ZBF
CR473S 123 1.6KV(MPP)
CR474S 472 1600V(MPP)
R464 0.68(AG) 1W(RS)
D464 GI824 400V
J174 JUMPER
L480* HF70ZBF
FBT
T445*
HV
R-HV
G-HV
B-HV
AC
DC
4P ?
R485 0.47-K(AF) 2W(RF)
L483 BL02RN2-R65T2
L482 CORE-F/B
T481 4mH/830uH EER3541
D7
D6
D5
D4
D3
D2
D1
HC
B/R
HV-DC
ANODE
FOCUS
L481 CORE-F/B
DZ481 MTZJ18A 17.06V
R488 100K
STATIC FOCUS
FOCUS/ SCREEN BLOCK
DYNAMIC FOCUS
GND
R-FOCUS
G-FOCUS
B-FOCUS
R388 22K
R389 2K
R501 1K-F 1/2W(RM)
TEST
D474 TVR10G 400V
R472 0.47-K(AF) 1/2W(RF)
D501 1N4004 400V
R502 2K-F 1/2W(RM)
C484 101 500V
C483 2.2uF 50V
C477 224 250V(P)
1P (LAND)
ABL TEST POINT
X
Y
R466 20K-F 1/2W(RM)
RR401S 1K 1/2W
R467 26.7K-F 1/2W(RM)
R470 100 1/2W
R468 3.9K 1/2W
TO CRT PWB
GT16 1P
GT15 1P
GT14 1P
(AUTO) 1P GT17
(AUTO) 1P GT433
(AUTO) 1P GT422*
R495 1.8M
QR401S KSA539-Y
CR403S 101 50V
RR409S 390
DR402S 1N4148 100V
R482 91K
DZ483 MTZJ9.1B 9.1V
RR408S 2.2K
DR404S MTZJ15C 15.09V
DR401S 1N4148 100V
RR410S 10K
RR407S 1K
D484 1N4004 400V
D479 1N4148 100V
C487 103 100V(MP)
D478 1N4148 100V
R397 270
CR402S 50V 101
ICR01S 431 (TO-92)
Q481 KSC815-Y
DZ395 MTZJ4.7C 4.93V
DZ482S MTZJ9.1B 9.1V
CR401S 3.3uF 50V
RR402S 100K 0.3W
RR403S 180K-F 1/2W(RM)
RR404S 430K-F 1/2W(RM)
RR405S 430K-F 1/2W(RM)
RR406S 162K-F 1/2W(RM)
RR411S 162K-F 1/2W(RM)
R473 330K-G 1/2W(RM)
C478 273 100V(P)
R471 110K-F 1/2W(RM)
C479 222 200V(P)
DZ473 MTZJ9.1B 9.1V
HV-AC
HV-CONT.
RR471S 50K 0.3W
C476 4.7uF 50V(NP)
D472 400V TVR10G
GT33 1P
GT34 1P
GT35 1P
R489 5.1K
C492 3.3uF 50V
PROTECT
ABL
TITLE
SAMSUNG
Doc. CODE
Rev. No
SHEET NO
HV-REGULATION BLOCK

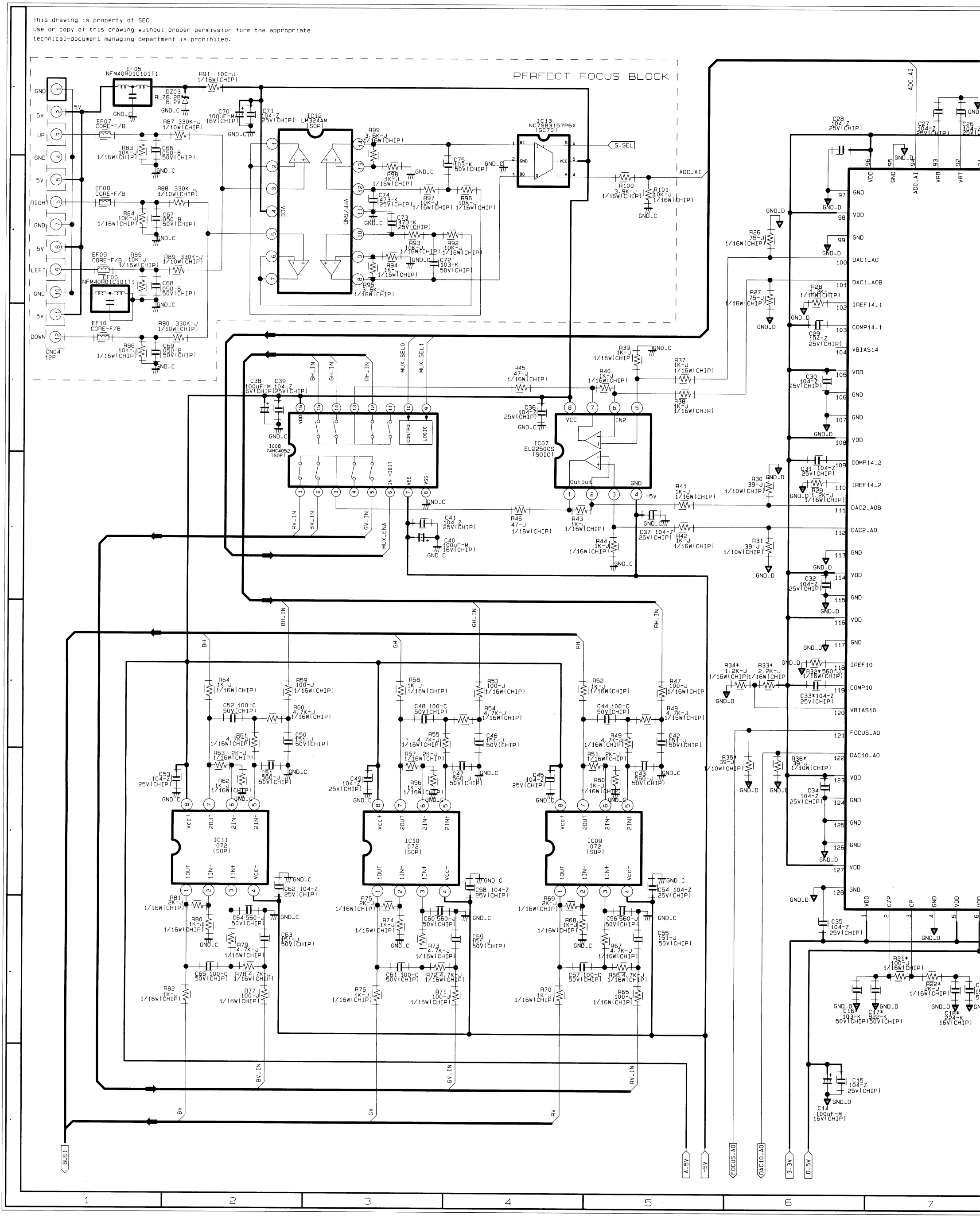
TP22


2002/03/27 18:45:39
NORM:10MS/s
++20us/div
Stopped
CH1 1V
AC 1:1
Trace1: P-P 2.720V
Rms 690.3mV
Freq 31.25kHz
Prod 32.00us

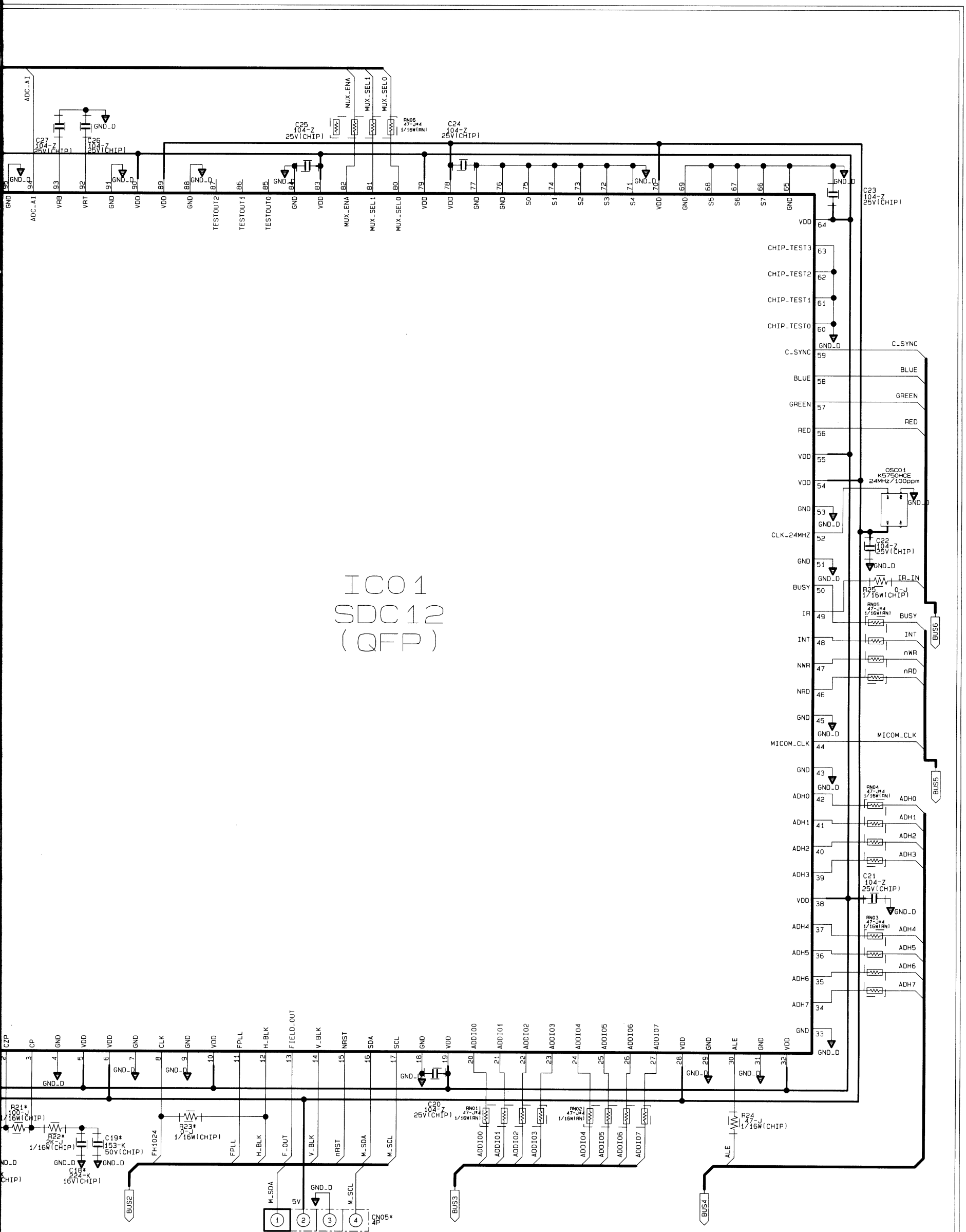
TP23


2002/03/27 18:47:02
NORM:20kS/s
++10ms/div
Stopped
CH1 1V
AC 1:1
Trace1: P-P 5.200V
Rms 749.9mV
Freq 59.52Hz
Prod 16.00ms

5-10 CONVERGENCE (SDC12 - 1)



IC01
SDC12
(QFP)



TITLE	ALMIGHTY3(SDC12) DIGITAL CONVERGENCE MODULE					
SAMSUNG	Doc. CODE		Rev. No		SHEET NO	/

7	8	9	10	11	12

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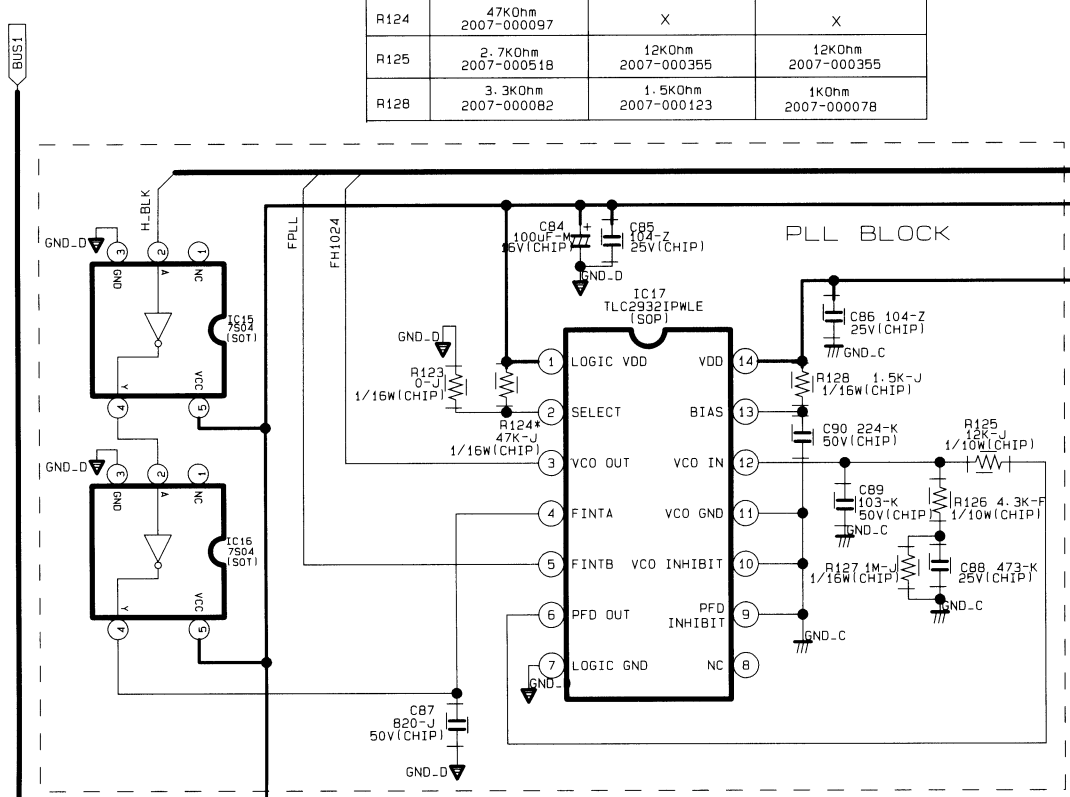
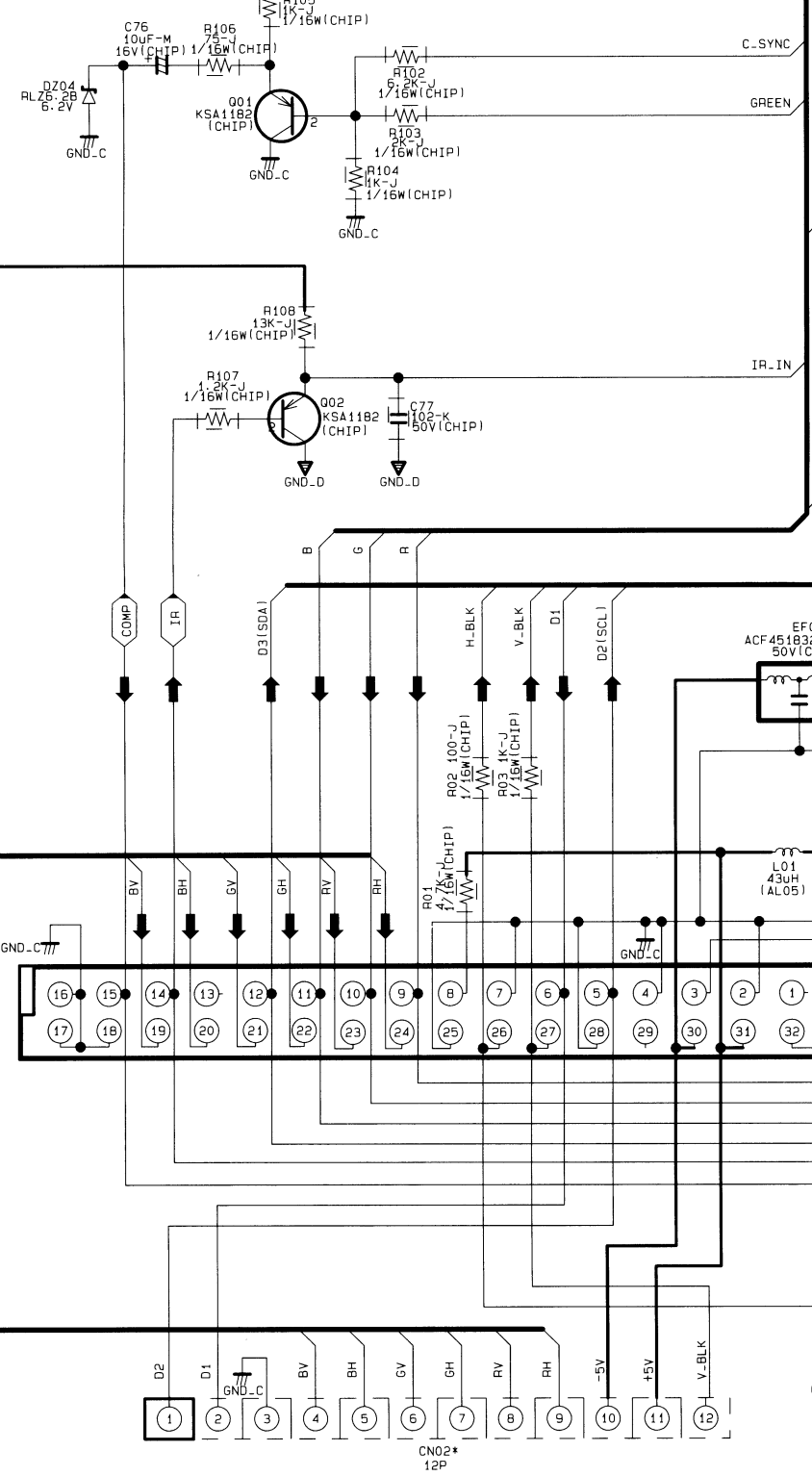
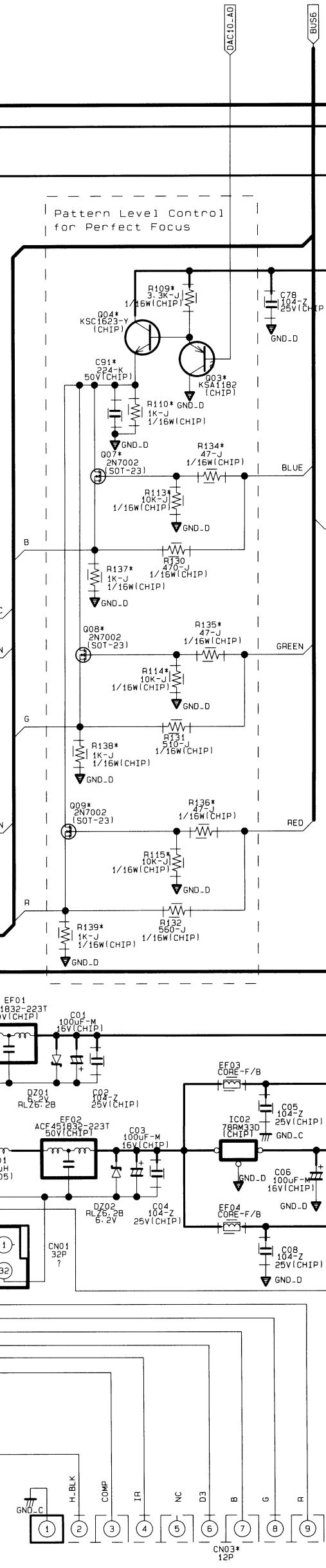
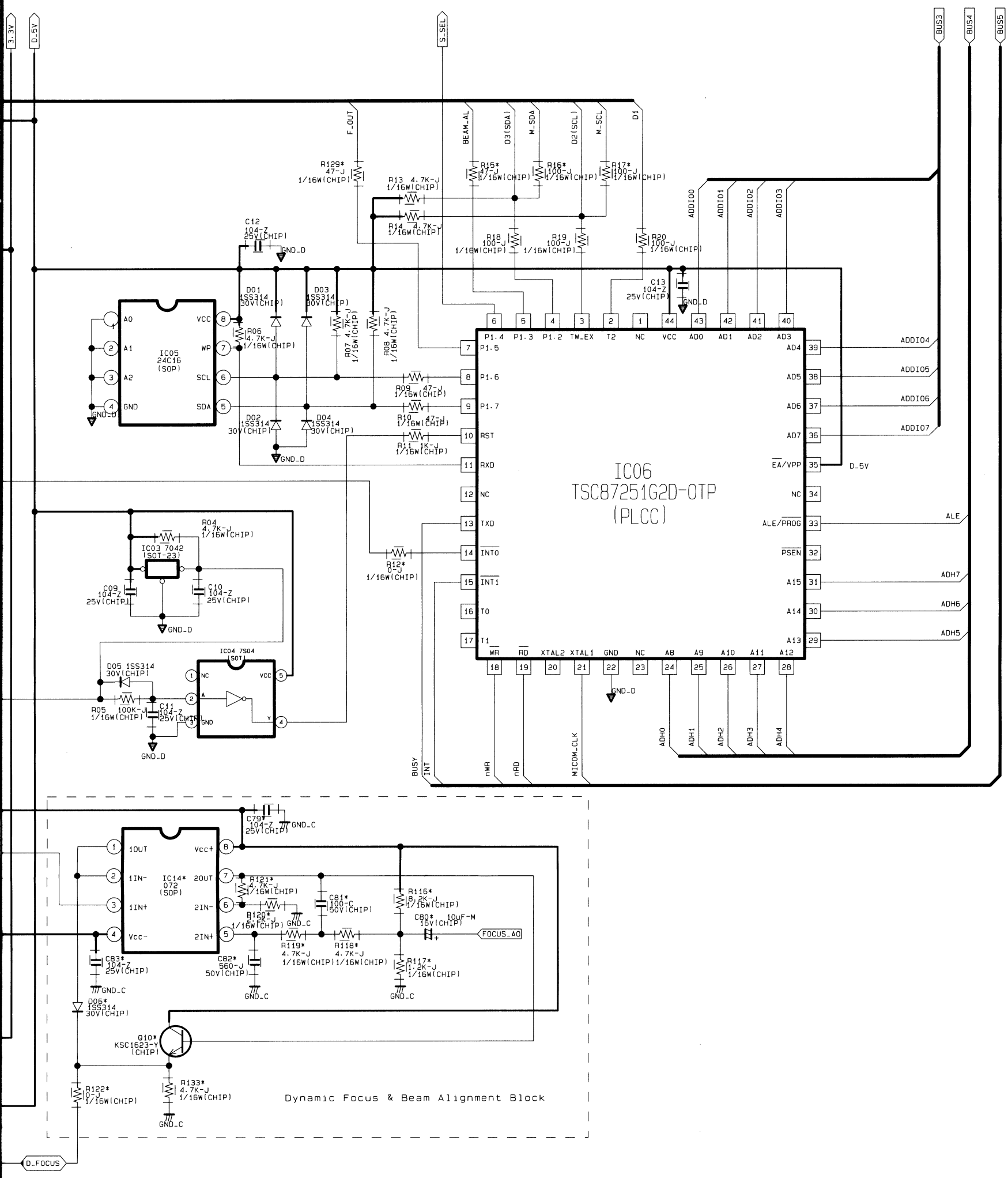
technical-document managing department is prohibited.

	1H	2H	3H
R123	X	0Ohm 2007-000070	0Ohm 2007-000070
R124	47KOhm 2007-000097	X	X
R125	2.7KOhm 2007-000518	12KOhm 2007-000355	12KOhm 2007-000355
R128	3.3KOhm 2007-000082	1.5KOhm 2007-000123	1KOhm 2007-000078









TITLE	ALMIGHTY3(SDC12) DIGITAL CONVERGENCE MODULE					
SAMSUNG	Doc. CODE		Rev. No		SHEET NO	/

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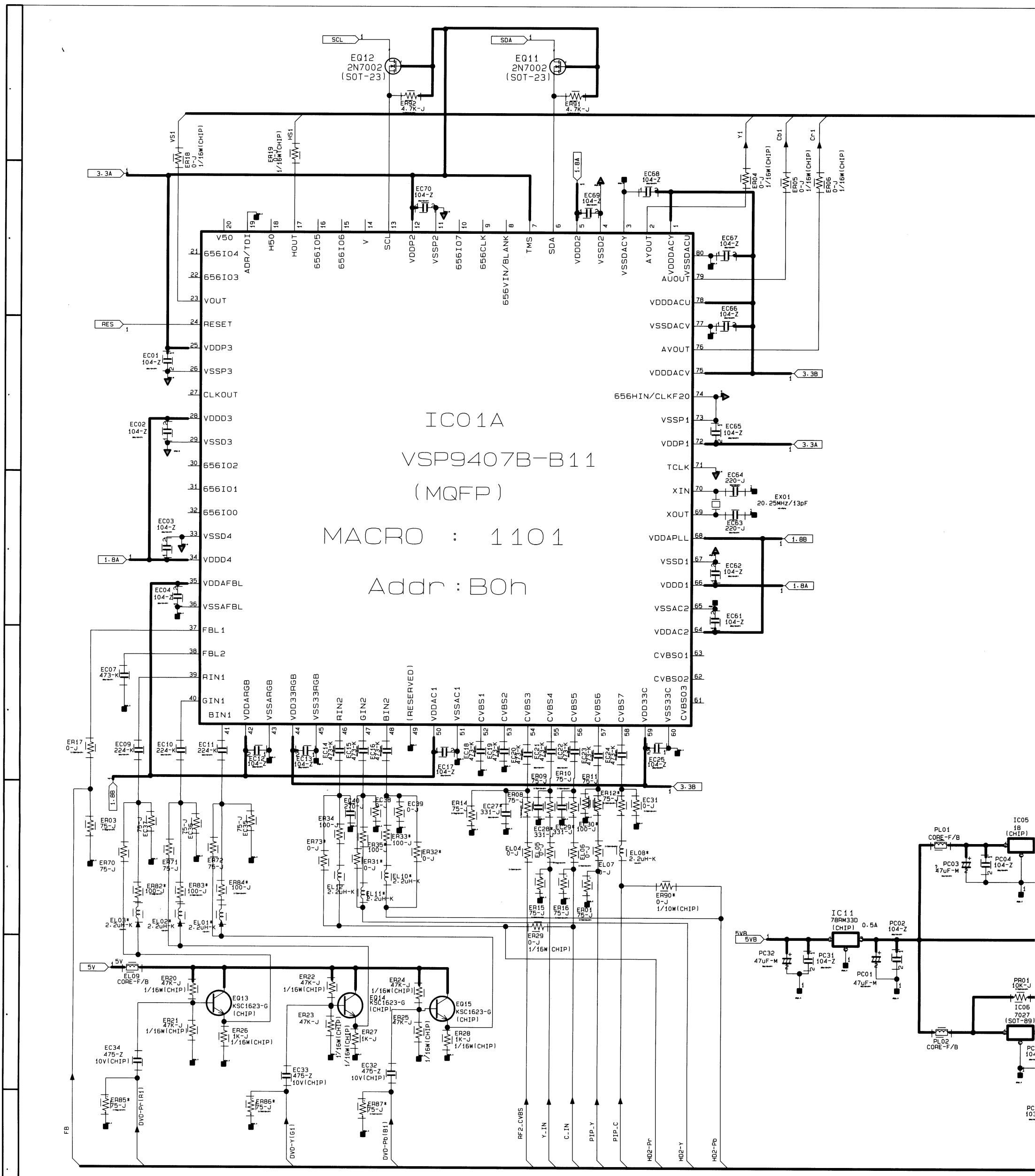
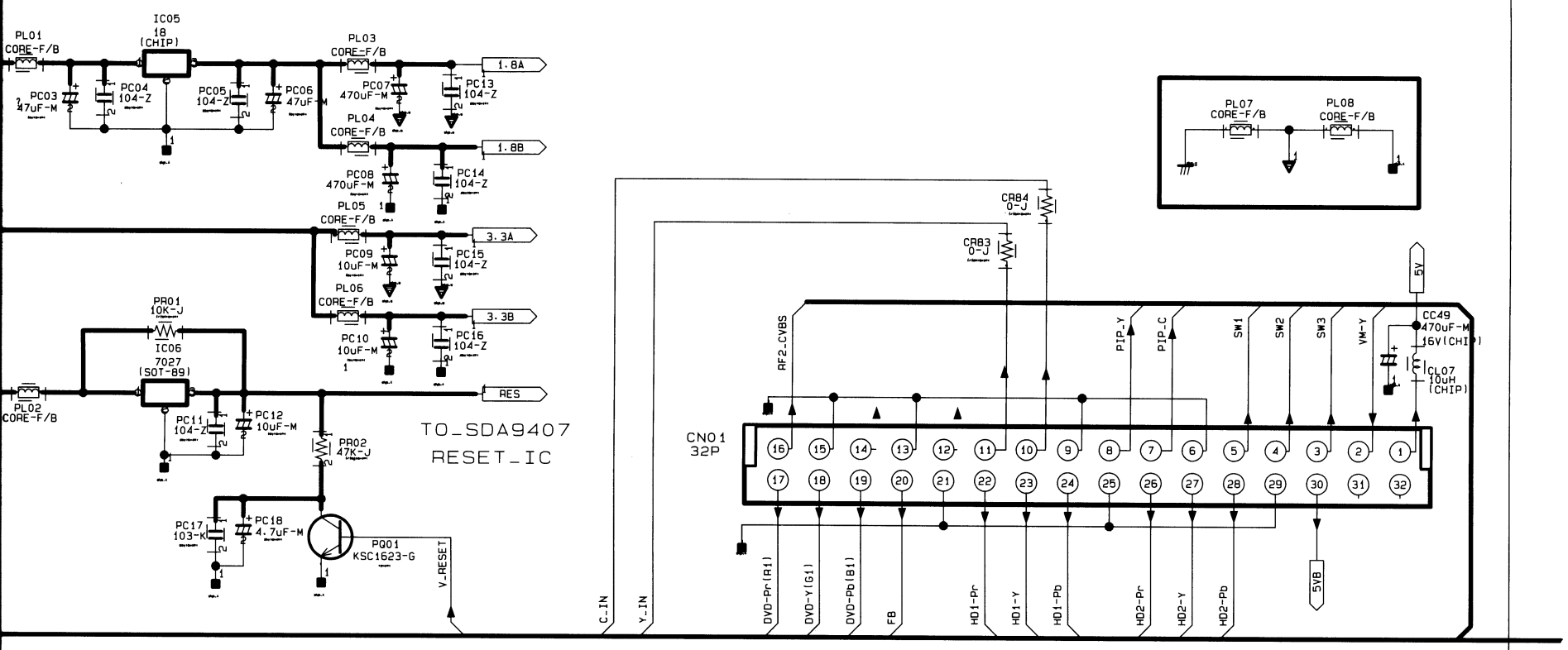
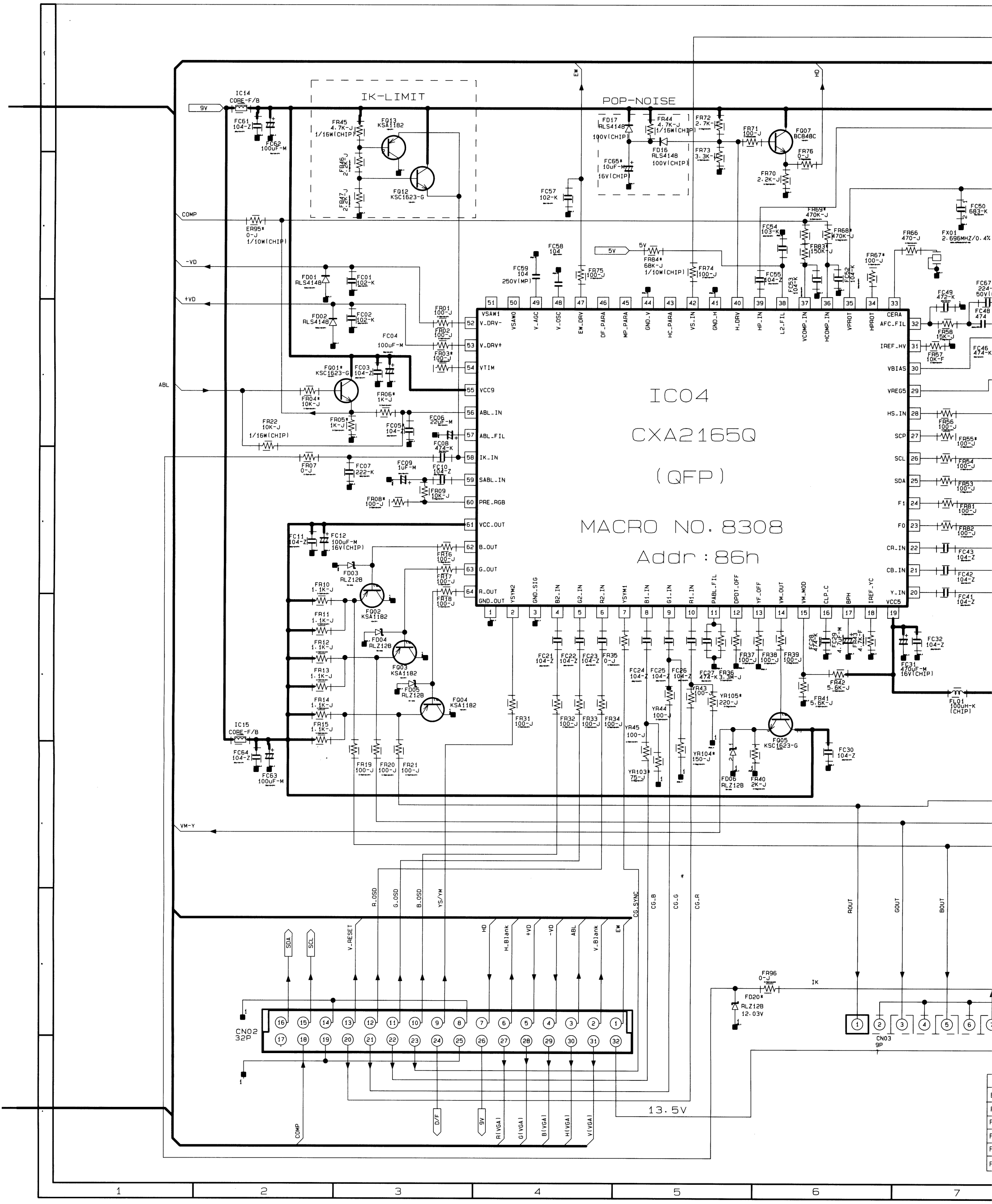
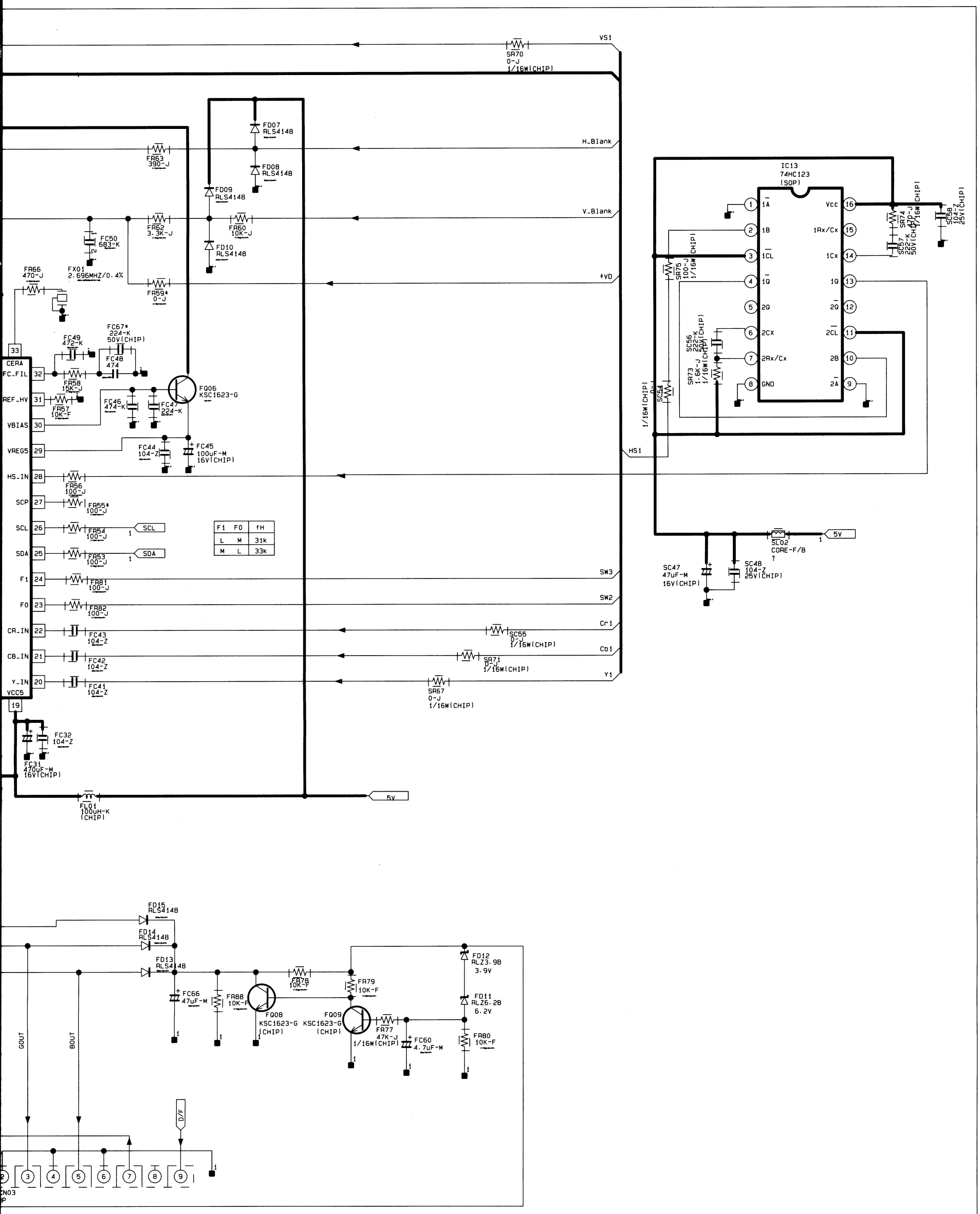
5-12 PRO SCAN 1




IC05
18
(CHIP)
PL01
CORE-F/B
PC03
47uF-M
PC04
104-Z
PC05
104-Z
PC06
47uF
PL03
CORE-F/B
PC07
470uF-M
PC13
104-Z
1.8A
PL04
CORE-F/B
1.8B
PC08
470uF-M
PC14
104-Z
PL05
CORE-F/B
3.3A
PC09
10uF-M
PC15
104-Z
PL06
CORE-F/B
3.3B
PC10
10uF-M
PC16
104-Z
PR01
10K-J
IC06
7027
(SOT-89)
PL02
CORE-F/B
PC11
104-Z
PC12
10uF-M
PR02
47K-J
AES
TO_SDA9407
RESET_IC
PC17
103-K
PC18
4.7uF-M
PQ01
KSC1623-G
V-RESET
PL07
CORE-F/B
PL08
CORE-F/B
CRB4
0-J
CRB3
0-J
5V
RF2-CVBS
PIP-Y
PIP-C
SW1
SW2
SW3
VM-Y
CC49
470uF-M
16V(CHIP)
CL07
10uH
(CHIP)
CN01
32P
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
C_IN
Y_IN
DVD-Pr(R1)
DVD-Y(G1)
DVD-Pb(B1)
FB
HD1-Pr
HD1-Y
HD1-Pb
HD2-Pr
HD2-Y
HD2-Pb
5VB

7	8	9	10	11	12


IK-LIMIT
POP-NOISE
IC04
CXA2165Q
(QFP)
MACRO NO. 8308
Addr : 86h
9V
5V
13.5V
COMP
-VD
+VD
ABL
VM-Y
IC14 CORE-F/B
IC15 CORE-F/B
FC61 104-Z
FC62 100uF-M
FC63 100uF-M
FC64 104-Z
FC04 100uF-M
FC11 104-Z
FC12 100uF-M 16V(CHIP)
FC57 102-K
FC58 104
FC59 104 250V(MP)
FC65* 10uF-M 16V(CHIP)
FC50 683-K
FC54 103-K
FC55 104-Z
FC52 104-K
FC53 104-K
FC49 472-K
FC67 224- 50V
FC48 474
FC46 474-K
FC32 104-Z
FC31 470UF-M 16V(CHIP)
FC30 104-Z
FC28 474-K
FC29 4.7UF-M
FC43 104-Z
FC42 104-Z
FC41 104-Z
FX01 2.696MHZ/0.4%
FL01 100UH-K (CHIP)
FR45 4.7K-J 1/16W(CHIP)
FR46 2.2K-J
FR47 2.2K-J
FR44 4.7K-J 1/16W(CHIP)
FR72 2.7K-
FR73 3.3K-
FR71 100-J
FR76 0-J
FR70 2.2K-J
FR69* 470K-J
FR68* 470K-J
FR83* 150K-J
FR84* 68K-J 1/10W(CHIP)
FR74 100-J
FR75 100-J
FR67* 100-J
FR66 470-J
FR01 100-J
FR02 100-J
FR03* 100-J
FR04* 10K-J
FR05* 1K-J
FR06* 1K-J
FR22 10K-J 1/16W(CHIP)
FR07 0-J
FR08* 100-J
FR09 10K-J
FR10 1.1K-J
FR11 1.1K-J
FR12 1.1K-J
FR13 1.1K-J
FR14 1.1K-J
FR15 1.1K-J
FR16 100-J
FR17 100-J
FR18 100-J
FR19 100-J
FR20 100-J
FR21 100-J
FR31 100-J
FR32 100-J
FR33 100-J
FR34 100-J
FR35 0-J
FR36 3.3M-J
FR37 100-J
FR38 100-J
FR39 100-J
FR42 5.6K-J
FR41 5.6K-J
FR58 15K-J
FR57 10K-F
FR56 100-J
FR55* 100-J
FR54 100-J
FR53 100-J
FR81 100-J
FR82 100-J
FR43 4.7K-F
FR40 2K-J
FR96 0-J
YR43 100-J
YR105* 220-J
YR44 100-J
YR45 100-J
YR104* 150-J
YR103* 75-J
FD01 RLS4148
FD02 RLS4148
FD03 RLZ12B
FD04 RLZ12B
FD05 RLZ12B
FD06 RLZ12B
FD16 RLS4148 100V(CHIP)
FD17 RLS4148 100V(CHIP)
FD20* RLZ12B 12.03V
FQ01* KSC1623-G
FQ02 KSA1182
FQ03 KSA1182
FQ04 KSA1182
FQ05 KSC1623-G
FQ07 BC848C
FQ12 KSC1623-G
FQ13 KSA1182
VSAW1 V_DRV- VSAW0 V_AGC V_OSC EW_DRV DF_PARA MP_PARA GND_V HC_PARA VS_IN GND_H H_DRV HP_IN L2_FIL VCOMP_IN HCOMP_IN VPROT HPROT CERA
AFC_FIL IREF_HV VBIAS VREG5 HS_IN SCP SCL SDA F1 F0 CR_IN CB_IN Y_IN VCC5
V_DRV+ VTIM VCC9 ABL_IN ABL_FIL IK_IN SABL_IN PRE_RGB VCC_OUT B_OUT G_OUT R_OUT GND_OUT
YSYM2 GND_SIG B2_IN G2_IN R2_IN YSYM1 B1_IN G1_IN R1_IN PABL_FIL DPDT_OFF YF_OFF VM_OUT VM_MOD CLP_C BPH IREF_YC
CN02 32P
CN03 9P
R_OSD G_OSD B_OSD YS/YM
V_RESET H_Blank +VD -VD ABL V_Blank EW
CG_SYNC CG_B CG_G CG_R
SDA SCL
D/F 9V R(VGA) G(VGA) B(VGA) H(VGA) V(VGA)
ROUT GOUT BOUT
IK



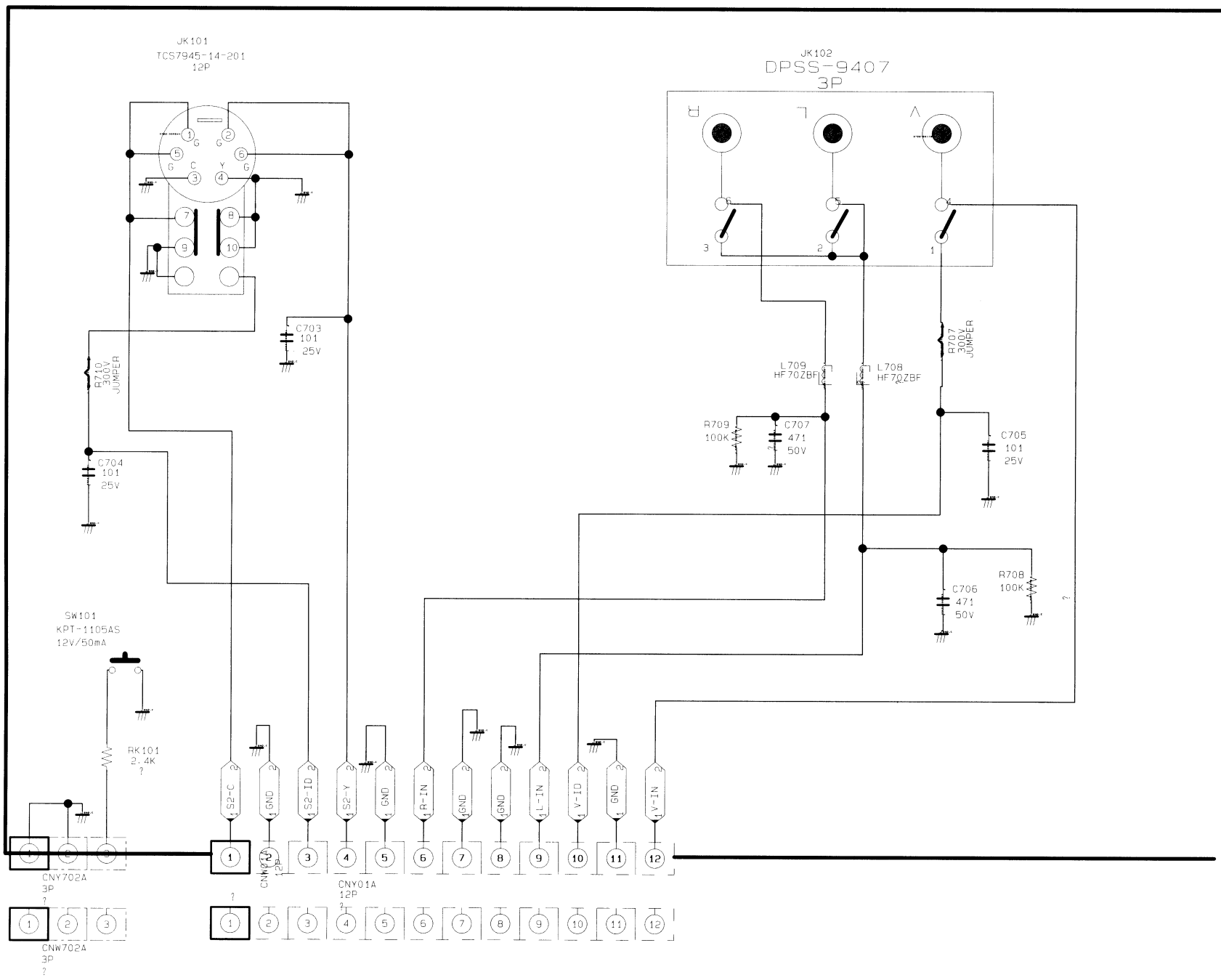
	C1.5(*HP)	C2.0(*HF)
ER95	2007-000070(0ohm)	DELETE
FC52	2007-000819(390K)	2203-000206(100nF)
FC53	2007-000068(470K)	2203-000206(100nF)
FR68	2007-000107(470K)	DELETE
FR69	2007-000107(470K)	DELETE
FR83	2007-000104(150K)	DELETE

TITLE	COMMANDO PAL 100Hz					
DESIGNE						
SAMSUNG	Doc. CODE		Rev. No		SHEET NO	3 / 3

7	8	9	10	11	12

5-14 AV FRONT, DY JACK, SENSOR

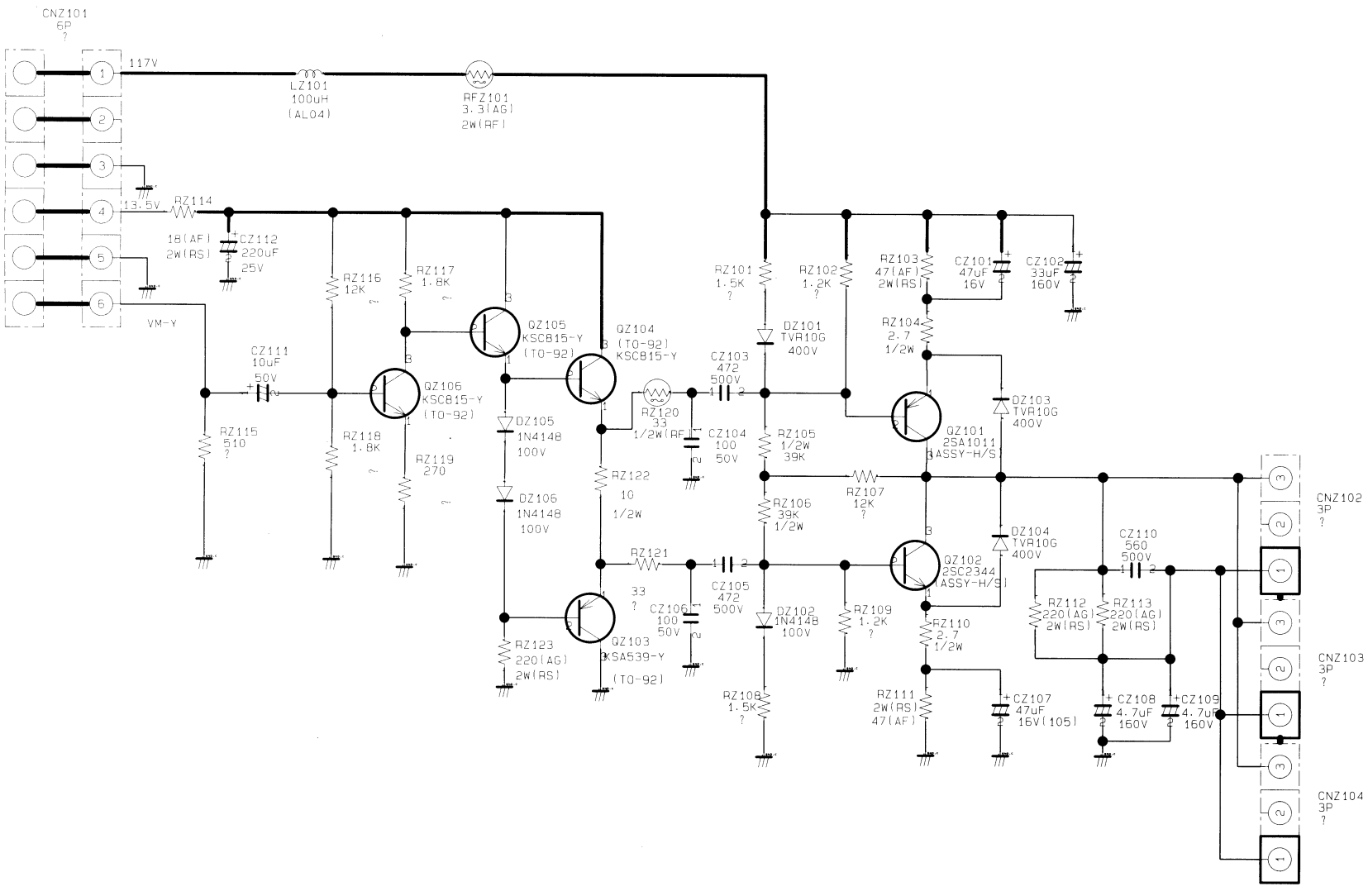
AV FRONT



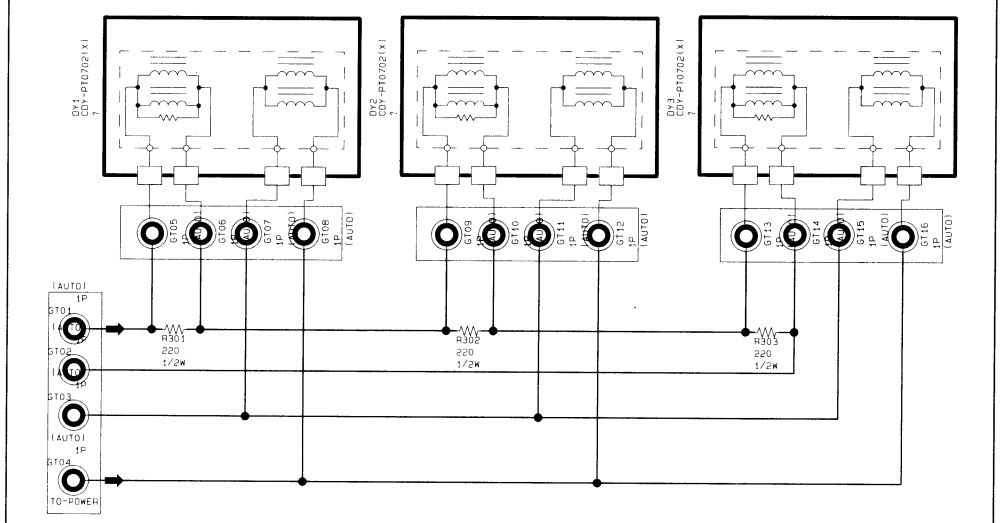
5-15 VM, CONTROL

VM

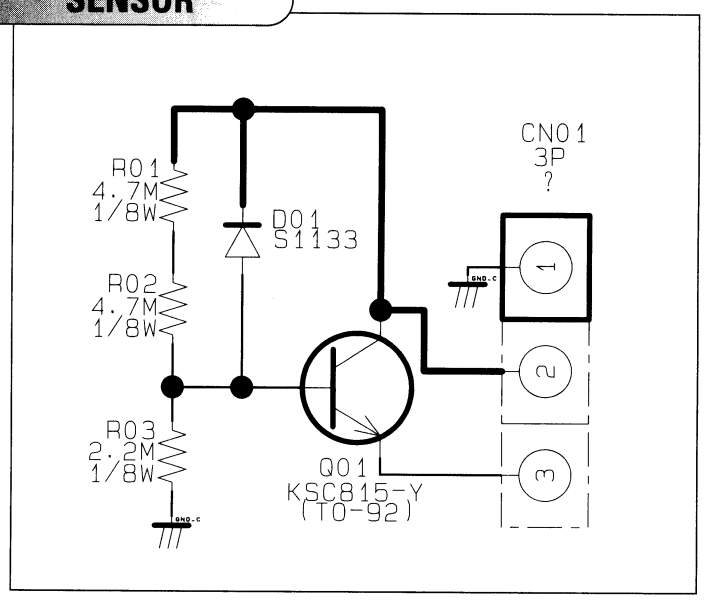
CONTR



DY JACK

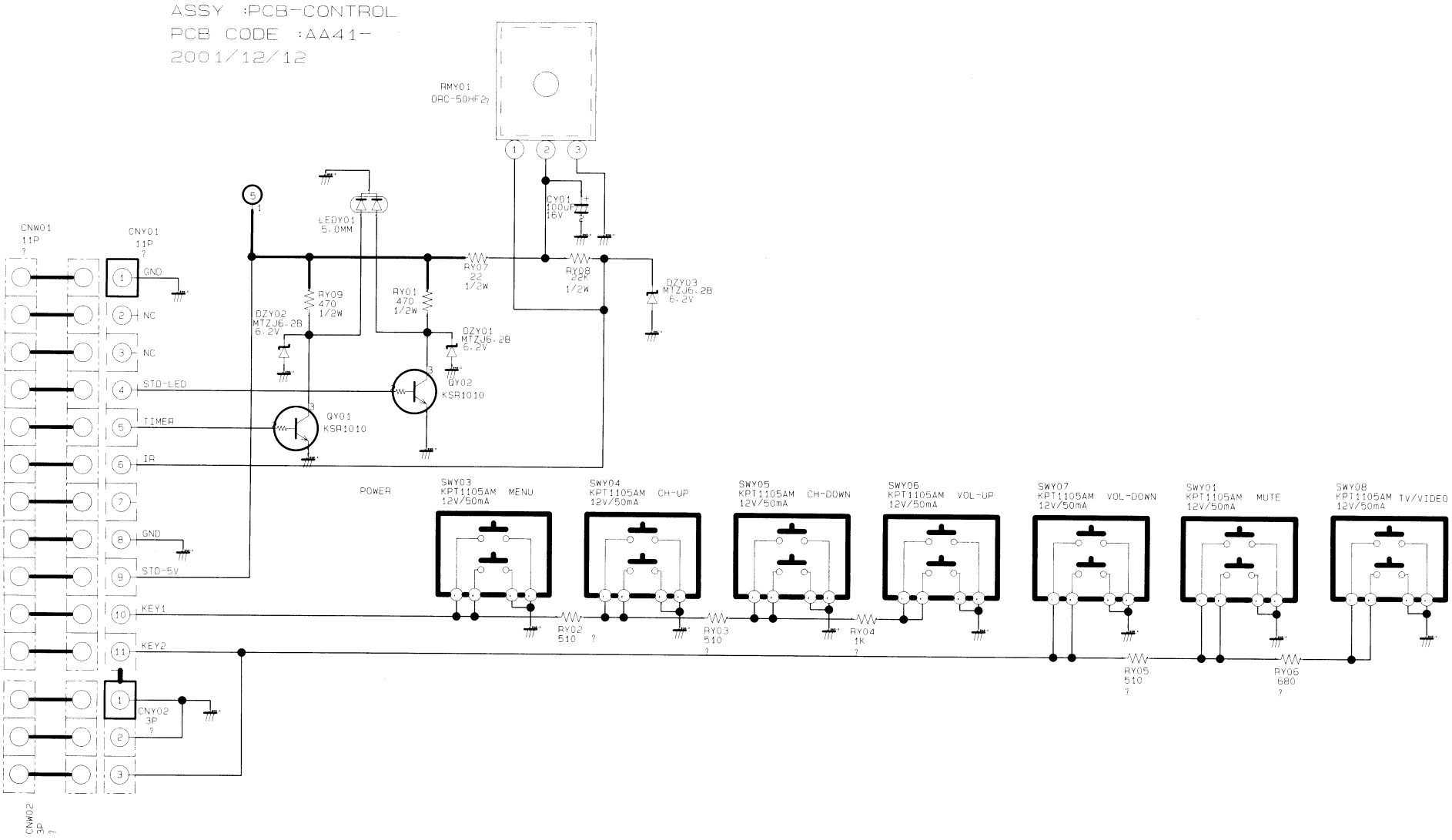


SENSOR

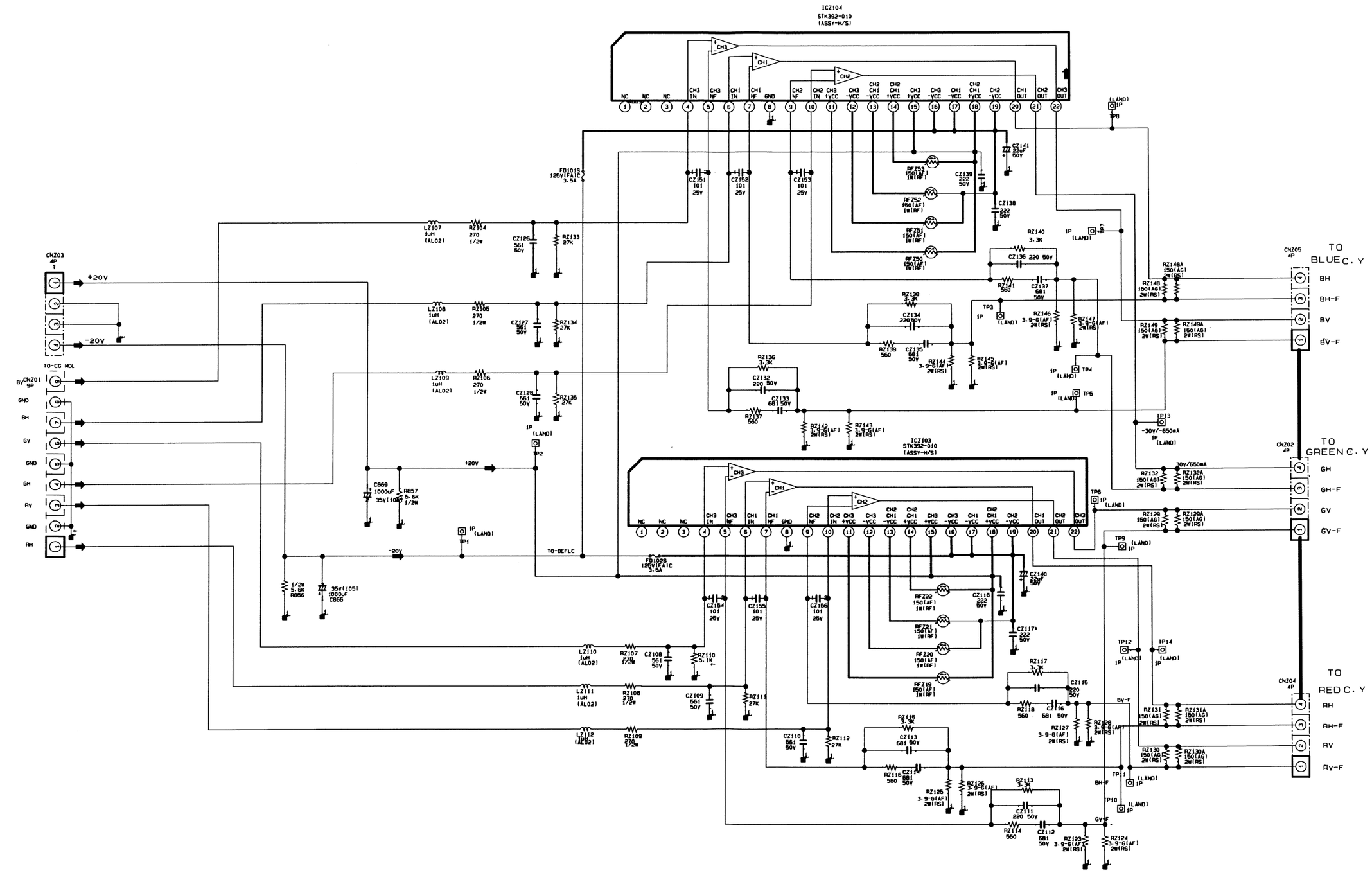


CONTROL

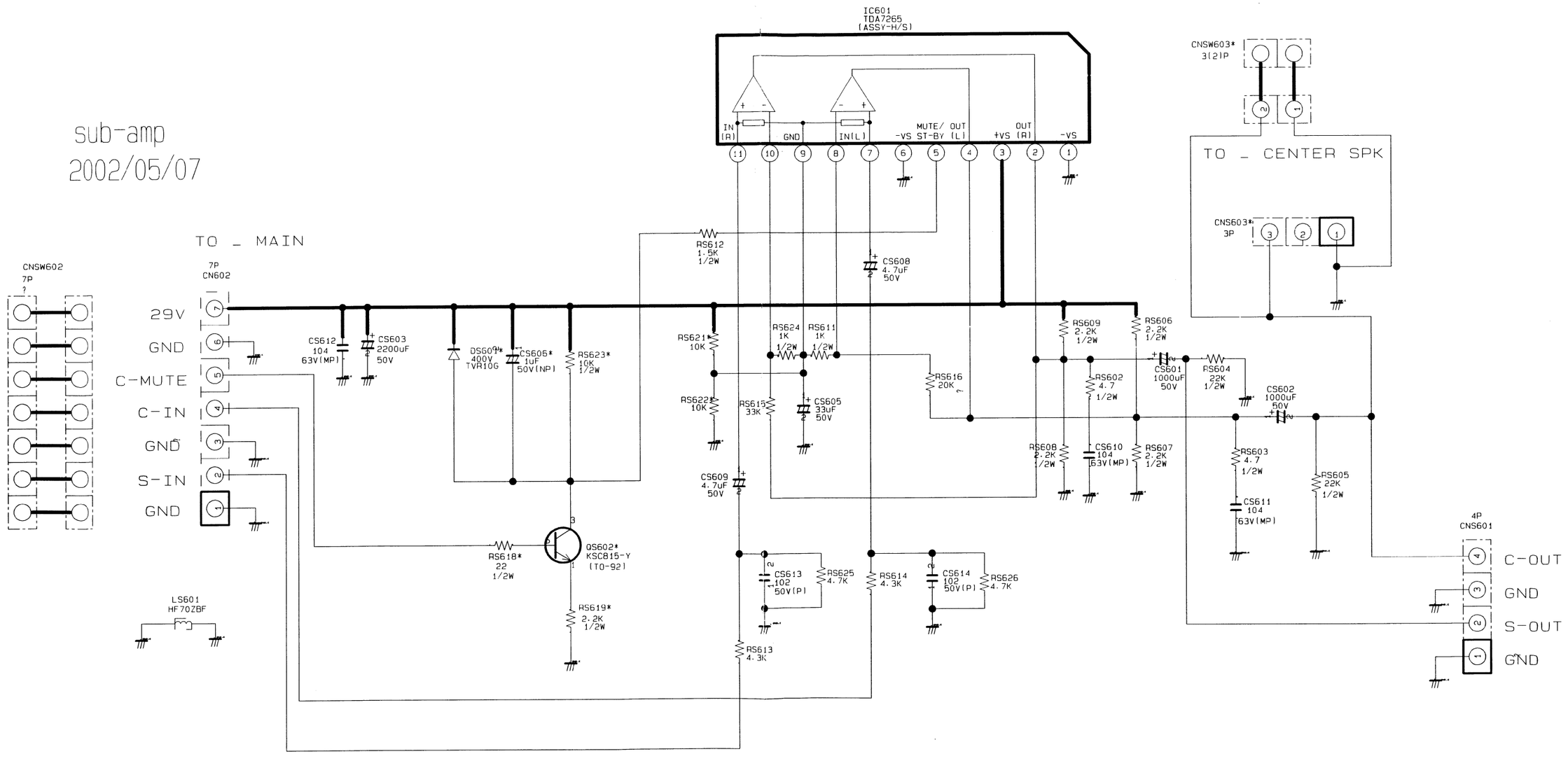
CHASSIS :W3
MODEL : P54A, P56A, J52A, J53A ALL MODEL
ASSY :PCB-CONTROL
PCB CODE :AA41-
2001/12/12



5-16 CG AMP


ICZ104
STK392-010
(ASSY-H/S)
CNZ03
4P
+20V
-20V
TO-CG MDL
CNZ01
9P
BV
GND
BH
GV
GND
GH
RV
GND
RH
FDI01S
125V(FAIC)
3.5A
LZ107
1uH
(AL02)
RZ104
270
1/2W
CZ126
561
50V
RZ133
27K
LZ108
1uH
(AL02)
RZ105
270
1/2W
CZ127
561
50V
RZ134
27K
LZ109
1uH
(AL02)
RZ106
270
1/2W
CZ128
561
50V
RZ135
27K
1P
(LAND)
TP2
+20V
C869
1000uF
35V(10S)
R857
5.6K
1/2W
1P
(LAND)
TP1
-20V
TO-DEFLC
1/2W
5.6K
R856
35V(10S)
1000uF
C866
CZ151
101
25V
CZ152
101
25V
CZ153
101
25V
CZ141
22uF
50V
RFZ53
150(AF)
1W(RF)
CZ139
222
50V
RFZ52
150(AF)
1W(RF)
CZ138
222
50V
RFZ51
150(AF)
1W(RF)
RFZ50
150(AF)
1W(RF)
(LAND)
1P
TP8
RZ140
3.3K
CZ136 220 50V
RZ141
560
CZ137
681
50V
TP3
1P
(LAND)
RZ146
3.9-G(AF)
2W(RS)
RZ147
3.9-G(AF)
2W(RS)
RZ148A
150(AG)
2W(RS)
RZ148
150(AG)
2W(RS)
RZ149
150(AG)
2W(RS)
RZ149A
150(AG)
2W(RS)
CNZ05
4P
TO
BLUE C. Y
BH
BH-F
BV
BV-F
RZ138
3.3K
CZ134
220 50V
RZ139
560
CZ135
681
50V
RZ144
3.9-G(AF)
2W(RS)
RZ145
3.9-G(AF)
2W(RS)
TP4
1P
(LAND)
TP5
1P
(LAND)
RZ136
3.3K
CZ132
220 50V
CZ133
681 50V
RZ137
560
RZ142
3.9-G(AF)
2W(RS)
RZ143
3.9-G(AF)
2W(RS)
TP13
-30V/-650mA
1P
(LAND)
ICZ103
STK392-010
(ASSY-H/S)
CNZ02
4P
TO
GREEN C. Y
30V/650mA
RZ132
150(AG)
2W(RS)
RZ132A
150(AG)
2W(RS)
GH
GH-F
GV
GV-F
TP6
1P
(LAND)
RZ129
150(AG)
2W(RS)
RZ129A
150(AG)
2W(RS)
TP9
1P
(LAND)
FDI02S
125V(FAIC)
3.6A
CZ140
22uF
50V
RFZ22
150(AF)
1W(RF)
CZ118
222
50V
RFZ21
150(AF)
1W(RF)
CZ117
222
50V
RFZ20
150(AF)
1W(RF)
RFZ19
150(AF)
1W(RF)
CZ154
101
25V
CZ155
101
25V
CZ156
101
25V
TP12
1P
(LAND)
TP14
1P
(LAND)
LZ110
1uH
(AL02)
RZ107
270
1/2W
CZ108
561
50V
RZ110
5.1K
LZ111
1uH
(AL02)
RZ108
270
1/2W
CZ109
561
50V
RZ111
27K
LZ112
1uH
(AL02)
RZ109
270
1/2W
RZ117
3.3K
CZ115
220
50V
RZ118
560
CZ116
681
50V
RZ128
3.9-G(AF)
2W(RS)
RZ127
3.9-G(AF)
2W(RS)
CNZ04
4P
TO
RED C. Y
RH
RH-F
RV
RV-F
BV-F
RZ131
150(AG)
2W(RS)
RZ131A
150(AG)
2W(RS)
RZ130
150(AG)
2W(RS)
RZ130A
150(AG)
2W(RS)
CZ110
561
50V
RZ112
27K
RZ115
3.3K
CZ113
681 50V
RZ116
560
CZ114
681
50V
RZ126
3.9-G(AF)
2W(RS)
RZ125
3.9-G(AF)
2W(RS)
TP11
1P
(LAND)
BH-F
TP10
1P
(LAND)
RZ113
3.3K
CZ111
220 50V
RZ114
560
CZ112
681
50V
RZ123
3.9-G(AF)
2W(RS)
GV-F
RZ124
3.9-G(AF)
2W(RS)

5-17 SUB AMP


sub-amp
2002/05/07
TO _ MAIN
CNSW602
7P
7P
CN602
29V
GND
C-MUTE
C-IN
GND
S-IN
GND
CS612 104 63V(MP)
CS603 2200uF 50V
DS601* 400V TVR10G
CS606* 1uF 50V(NP)
RS623* 10K 1/2W
RS618* 22 1/2W
QS602* KSC815-Y (TO-92)
RS619* 2.2K 1/2W
LS601 HF70ZBF
IC601 TDA7265 (ASSY-H/S)
IN (R)
GND
IN(L)
MUTE/ OUT -VS ST-BY (L)
OUT +VS (R)
-VS
RS612 1.5K 1/2W
CS608 4.7uF 50V
RS621* 10K
RS622* 10K
RS624 1K 1/2W
RS611 1K 1/2W
RS615 33K
CS605 33uF 50V
RS616 20K
CS609 4.7uF 50V
RS609 2.2K 1/2W
RS606 2.2K 1/2W
RS602 4.7 1/2W
CS601 1000uF 50V
RS604 22K 1/2W
CS602 1000uF 50V
RS608 2.2K 1/2W
CS610 104 63V(MP)
RS607 2.2K 1/2W
RS603 4.7 1/2W
CS611 104 63V(MP)
RS605 22K 1/2W
CS613 102 50V(P)
RS625 4.7K
RS614 4.3K
CS614 102 50V(P)
RS626 4.7K
RS613 4.3K
CNSW603* 3(2)P
TO _ CENTER SPK
CNS603* 3P
4P CNS601
C-OUT
GND
S-OUT
GND